THOMSON MULTI MEDIA

Brandt FERGUSON SABA **TELEFUNKEN** **THOMSON**

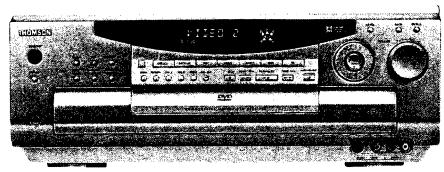
AUDIO

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

THOMSON DPL 800VD

Version (PC*): A

*PC: The version code is indicated either in the battery compartment or on the back of the unit - ce code version est indiqué dans le compartiment à piles ou au dos de l'appareil - PC: Version des Geräts wird im Batteriefach oder auf der Rückseite angegeben - il codice della versione è indicato nello scompartimento delle batterie o sul retro dell'apparecchio - el código de la versión está indicado en el compartimento de las pilas o en la parte trasera del aparato.



Technical data - Caractéristiques principales
Technische Daten - Dati tecnici - Caracteristicas del aparato

Type of set : **Type d'appareil :** **Geräteart :** **Tipo d'apparecchio :** **Tipo de aparato :**	Stereo pre-main amplifier - DVD Préampli-ampli stéréophonique - DVD Stéreo-Vollverstärker - DVD Preamplificatore-amplificatore stereo -DVD Préamplificador-amplificador estereo -DVD		430 mm × 160 mm × 430 mm, 12 kg
Power supply : **Alimentation :** **Stromversorgung :** **Alimentazione :** **Alimentación :**	~ 230 V - 50Hz	**Nominal output power :** **Puissance nominale de sortie :** **Nennausgangsleistung :** **Potenza nominale di uscita :** **Potencia nominal de salida :**	5 x 50 W (RMS)
FM - MF : **MW - PO :** **LW - GO :**	87,5 - 108 MHz 522 - 1620 kHz 153 - 279 kHz	**Sensitivity :** **Sensibilité :** **Empfindlichkeit :** **Sensibilità :** **Sensibilidad :**	**FM - MF :** 6 µV (S/N = 26 dB) **MW - PO :** 600 µV/m (S/N = 20 dB) **LW - GO :** 1500 µV/m (S/N = 20 dB)
Frequency response : **Courbe de réponse :** **Frequenzgang :** **Curva di risposta :** **Curva de respuesta :**	Front amp 15Hz - 70 kHz Rear amp 120Hz - 7kHz	**Signal to noise ratio :** **Rapport signal / bruit :** **Geräuschspannungsabstand :** **Rapporto segnale / disturbo :** **Relación señal / ruido :**	65 dB (1kHz)
Total harmonic distorsion : **Distorsion harmonique :** **Klirrfaktor :** **Distorsione armonica :** **Distorsión armónica :**	0,2 % (-6 dB 1kHz)	**Stereo separation :** **Diaphonie :** **Übersprechdämpfung :** **Diafonia :** **Diafonía :**	60 dB (1kHz)
DVD **Standard :** **Standard :** **Norm :** **Stantard :** **Estandar :**	PAL and NTSC	**Signal to noise ratio :** **Rapport signal / bruit :** **Geräuschspannungsabstand :** **Rapporto segnale / disturbo :** **Relación señal / ruido :**	65 dB
Dynamic range : **Gamme dynamique :** **Dynamikumfang :** **Dinamica :** **Dinámica :**	60 dB	**Total harmonic distorsion :** **Distorsion harmonique :** **Klirrfaktor :** **Distorsione armonica :** **Distorsión armónica :**	< 0,3%

WARNING : *Before servicing this chassis read the safety recommendations.*
ATTENTION : *Avant toute intervention sur ce châssis, lire les recommandations de sécurité.*
ACHTUNG : *Vor jedem Eingriff auf diesem Chassis, die Sicherheitsvorschriften lesen.*
ATTENZIONE : *Prima di intervenire sullo chassis, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

Code : 351 357 00 - 1100 / 3,2M - DRD1001 Print. MALGOGNE/SAILLOUR - AVRILLÉ

No copying, translation, modification on other use authorized. All rights reserved worldwide. • Tous droits de reproduction, de traduction, d'adaptation et d'exécution réservés pour tous les pays. • Sämtliche Urheberrechte an diesen Texten und Zeichnungen stehen uns zu. Nachdrucke, Vervielfältigungen - auch auszugsweise - nur mit unserer vorherigen Zustimmung zulässig. Alle Rechte vorbehalten. • I diritti di riproduzione, di traduzione, e esecuzione sono riservati per tutti i paesi. • Derechos de reproduccion, de traduccion, de adaptacion y de ejecucion reservados para todos los paises.

Do not disconnect modules when they are energized!
Repairs on power supply section are to be carried out only with isolating transformer.

Ne pas retirer les modules lorsqu' ils sont sous tension. N'effectuer les travaux de maintenance sur la partie reliée au secteur (Switch Mode) qu'au travers d'un transformateur d'isolement.

Module nicht bei eingeschaltetem Gerät entfernen!
Servicearbeiten am Netzteil nur unter Verwendung eines Regeltrenntrafos durchführen.

Non scollegare le piastre quando sono alimentate!
Per le riparazioni sulla sezione alimentatore, utilizzare un trasformatore isolatore.

No desconectar los módulos cuando están activados. Las reparaciones en la sección de alimentación de energía deben ser ejecutadas solamente con un transformador de separación.

⚠ Indicates critical safety components, and identical components should be used for replacement. Only then can the operational safety be garanteed.

Le remplacement des éléments de sécurité (repérés avec le symbole ⚠) par des composants non homologués selon la Norme CEI 65 entraine la non-conformité de l'appareil. Dans ce cas, la responsabilité du fabricant n'est plus engagée.

Wenn Sicherheitsteile (mit dem Symbol ⚠ gekennzeichnet) nicht durch Original - Ersatzteile ersetzt werden, erlischt die Haftung des Herstellers.

La sostituzione dei componenti di sicurezza (evidenziati con il segno ⚠) con componenti non omologati secondo la norma CEI 65 comporta la non conformitá dell'apparecchio. In tal caso è "esclusa la responsabilità " del costruttore.

La sustitución de elementos de seguridad (marcados con el simbolo ⚠) por componentes no homologados segun la norma CEI 65, provoca la no conformidad del aparato. En ese caso, el fabricante cesa de ser responsable.

MEASUREMENT CONDITIONS - CONDITIONS DE MESURES - MESSBEDINGUNGEN CONDIZIONI DI MISURA - CONDICIONES DE MEDIDAS

RECEIVER :
On UHF,input level : 1 mV, bar test pattern :
- PAL, I standard, 100% white.

Via the scart socket, input level : 1 Vpp, bar test pattern :

Colour, contrast and brightness at mid-position, sound at minimum.
Programme selected : PR 01.

DC voltages measured between the point and earth using a digital voltmeter.

RECEPTEUR :
En UHF, niveau d'entrée 1 mV mire de barres
- SECAM, Norm L, Blanc 100%.

Par la prise Péritélévision, niveau d'entrée 1 Vcc, mire de barres .

Couleur, contraste, lumière à mi-course, son minimum.
Programme affecté PR 01.

Tensions continues relevées par rapport à la masse avec un voltmètre numérique.

EMPFÄNGER :
Bei UHF Eingangspegel 1 mV, Farbbalken :
- PAL, Norm G, Weiss 100%.

Über die Scartbuchse : Eingangspegel 1 Vss, Farbbalken :

Farbe, Kontrast, Helligkeit in der Mitte des Bereichs, Ton auf Minimum.
Zugeordnetes Programm PR 01.

Gleichspannungen mit einem digitalen Voltmeter zur Masse gemessen.

RICEVITORE :
In UHF, livello d'entrata 1 mV, monoscopio barre :
- PAL, norma G. bianco 100%.

Via SCART, livello d'entrata 1 Vpp, monoscopio barre :

Colore, Contrasto, Luminositá media, Suono minimo.
Programma selezionato PR 01.

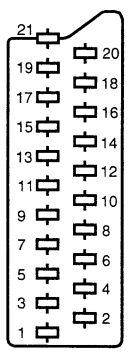
Tensioni continue rilevate rispetto alla massa con un voltmetro digitale.

RECEPTOR :
En UHF, nivel de entrada 1 mV, mira de barras :
- PAL, norma G, blanco 100%.

Por la toma Peritelevision, nivel de entrada 1 Vpp mira de barra.

Color, Contraste, luz a mitad de carrera, Sonido mínimo.
Programa afectado PR 01.

Tensiones continuas marcadas en relacion a la masa con un voltimetro digital.



NOTE : (MAIN) *... etc. identifies each pcb module.*

NOTE : (MAIN) *... etc. repères des platines constituant l'appareil.*

HINWEIS : (MAIN) *... usw. Kennzeichnung der Platinen, aus denen das Gerät zusammengesetzt ist.*

NOTA : (MAIN) *... ecc. sigla delle piastre dell' apparecchio.*

NOTA : (MAIN) *... etc. marcas de las placas que constituyen el aparato.*

		ENGLISH	FRANÇAIS	DEUTSCH	ITALIANO	ESPAÑOL
1	⊖	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
2	⊕	AUDIO "R"	AUDIO "D"	AUDIO "R"	AUDIO "D"	AUDIO "D"
3	⊖	AUDIO "L"	AUDIO "G"	AUDIO "L"	AUDIO "S"	AUDIO "I"
4	⊥	AUDIO	AUDIO	AUDIO	AUDIO	AUDIO
5	⊥	"BLUE"	"BLEU"	"BLAU"	"BLU"	"AZUL"
6	⊕	AUDIO "L" MONO	AUDIO "G" MONO	AUDIO "L" MONO	AUDIO "S" MONO	AUDIO "I" MONO
7	⊕	"BLUE"	"BLEU"	"BLAU"	BLU	AZUL
8	⊕	SLOW SWITCH	COMMUT. LENTE	AV UMSCHALTUNG	"COMMUTAZIONE LENTA"	"CONMUTACION LENTA"
9	⊥	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
10	NC					
11	⊕	"GREEN"	"VERT"	"GRÜN"	"VERDE"	"VERDE"
12	NC					
13	⊥	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
14	NC					
15	⊕	"RED"	"ROUGE"	"ROT"	"ROSSO"	"ROJA"
16	⊕	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
17	⊥	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
18	⊥	FAST SWITCH	COMMUT. RAPIDE	AUSTASTUNG	"COMMUTAZIONE RAPIDA"	"CONMUTACION RAPIDA"
19	⊖	VIDEO	VIDEO	VIDEO	VIDEO	VIDEO
20	⊕	VIDEO OR "SYNC"	VIDEO SYNCHRO	VIDEO ODER SYNCHRO	VIDEO O SINCRO	VIDEO O SINCRO
21	⊖	PLUG SCREEN BOX	BLINDAGE PRISE	ABSCHIRMUNG DES STECKERS	INVOLUCRO METALLICO DELLA PRESA	BLINDAJE DEL ENCHUFE

⊕ : INPUT - ENTRÉE - EINGANG - ENTRATA - ENTRADA • ⊖ : OUTPUT - SORTIE - AUSGANG - USCITA - SALIDA • ⊥ : EARTH - MASSE - MASSE - MASSA - MASA

CLASS 1 LASER PRODUCT
APPAREIL A LASER DE CLASSE 1
LASER KLASSE 1
APARATO CON LASER DE CLASE 1
APPARECCHIO CON LASER DI CLASSE 1

DANGER :	**Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.**
ATTENTION :	**Le rayon laser est invisible. Eviter l'exposition directe lors de la maintenance.**
VORSICHT BEI REPARATUREN :	**Bei geöffneter Schublade und Defekt der Sicherheits - vorrichtungen besteht die Gefahr unsichtbaren Laserlichts. Niemals direkt in den Laserstrahl sehen.**
ATTENZIONE :	**Il raggio laser è invisibile. Evitare l'esposizione diretta durante la manutenzione.**
IMPORTANTE :	**El rayo laser es invisible. Evitar la exposición directa en el momento del mantenimiento.**

PREVENTION OF ELECTRO STATIC DISCHARGE (ESD) TO ELECTROSTATICALLY SENSITIVE DEVICES (ESD)

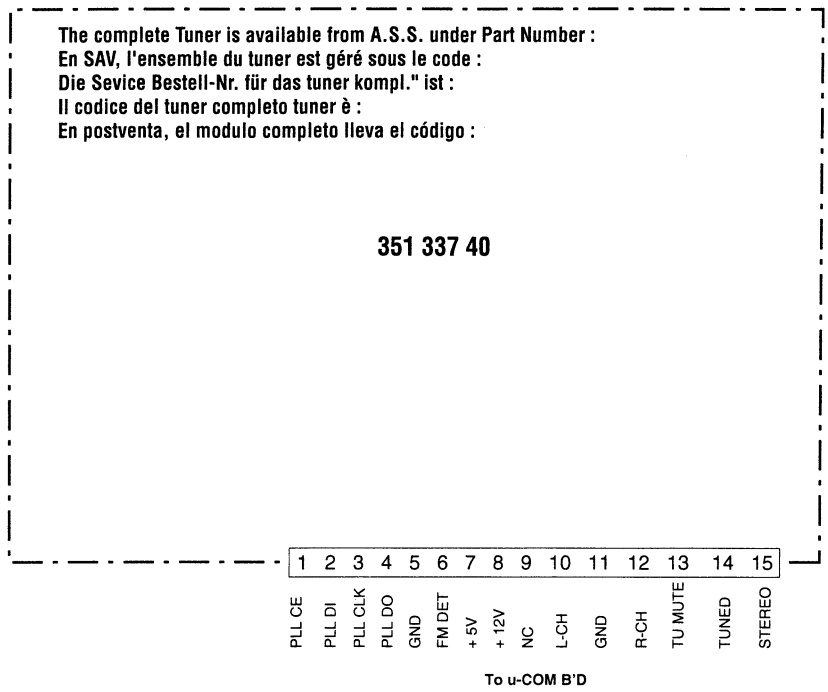
Some semiconductor (solid state) devices can be damaged easily by static electricity.
Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors and semiconductor chip components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ESD devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ESD devices.
4. Use only an anti-static solder removal devices. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESD devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESD devices.
6. Do not remove a replacement ESD device from its protective package until immediately before your are ready to install it. (Most replacement ESD devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive materials).
7. Immediately before removing the protective materials from the leads of a replacement ESD device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION : Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ESD devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ESD device).

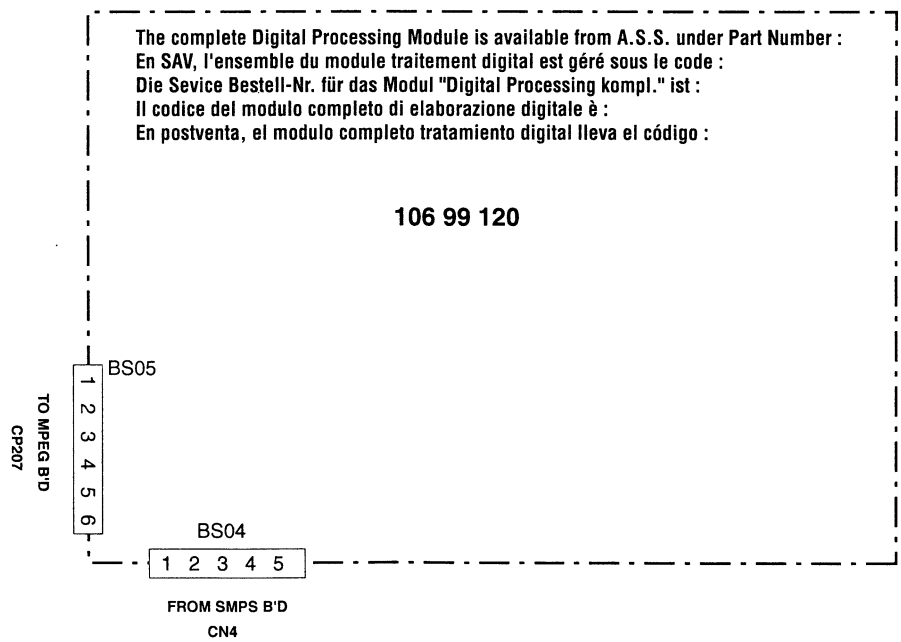
IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are imporant for safety, these part are marked by ⚠ symbol on the schematic circuit diagrams and replacement part list. It is essential that these safety critical components are replaced with the manufacture's specified parts to prevent electric shock, fire, or other hazards. do not attempt to modify the original design without permission of the manufacturer.

RF / FI SCHEMATIC DIAGRAM - SCHEMA HF / FI - HF / ZF SCHALTBILD SCHEMA HF / FI - ESQUEMA RF / FI


The complete Tuner is available from A.S.S. under Part Number :
En SAV, l'ensemble du tuner est géré sous le code :
Die Sevice Bestell-Nr. für das tuner kompl." ist :
Il codice del tuner completo tuner è :
En postventa, el modulo completo lleva el código :
351 337 40
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
PLL CE
PLL DI
PLL CLK
PLL DO
GND
FM DET
+ 5V
+ 12V
NC
L-CH
GND
R-CH
TU MUTE
TUNED
STEREO
To u-COM B'D

DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL


The complete Digital Processing Module is available from A.S.S. under Part Number :
En SAV, l'ensemble du module traitement digital est géré sous le code :
Die Sevice Bestell-Nr. für das Modul "Digital Processing kompl." ist :
Il codice del modulo completo di elaborazione digitale è :
En postventa, el modulo completo tratamiento digital lleva el código :
106 99 120
BS05
1 2 3 4 5 6
TO MPEG B'D
CP207
BS04
1 2 3 4 5
FROM SMPS B'D
CN4

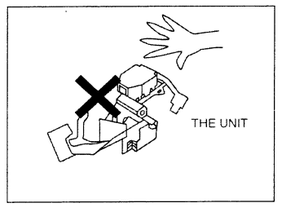
ADJUSTMENT PROCEDURES

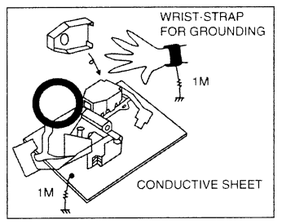
Handling the optical pickup

The laser diode used in the optical pickup may break down due to potential differences caused by electricity produced by clothing or the human body, care should therefore be taken to prevent electrostatic discharge whilst repairing the optical pickup.
The following method is recommended.

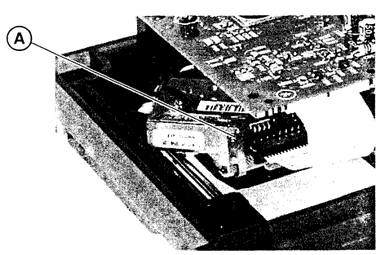
(1) Place a conductive sheet on the work bench (The black sheet used for wrapping repair parts.)
(2) Place the set on the conductive sheet so that the chassis is grounded to the sheet.
(3) Place your hands on the conductive sheet (doing this gives them the same ground as the sheet.)
(4) Remove the optical pickup block
(5) Perform work on top of the conductive sheet. Be careful not to let your clothes or any other static sources to touch the unit.

* Grounding the Human Body, use an antistatic wrist strap to discharge static electricity from your body.
* Grounding the work place, use either an antistatic matt or a sheet of steel on the area where the optical pickup is to be placed and ground the matt/sheet.





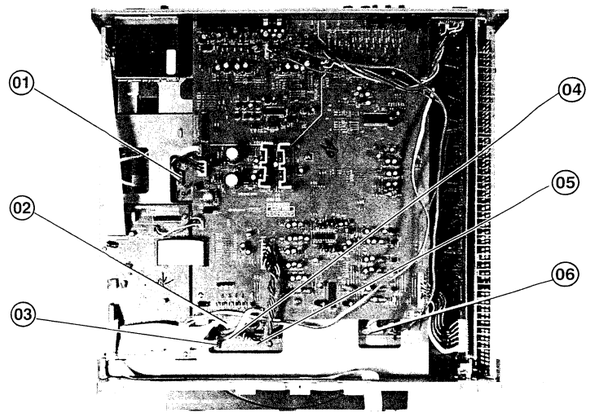
(6) Short the short terminal on the PCB, which is in-side the Pickup Assembly, before replacing the Pickup. (The short terminal is shorted when the Pickup Assembly is being lifted or moved.)



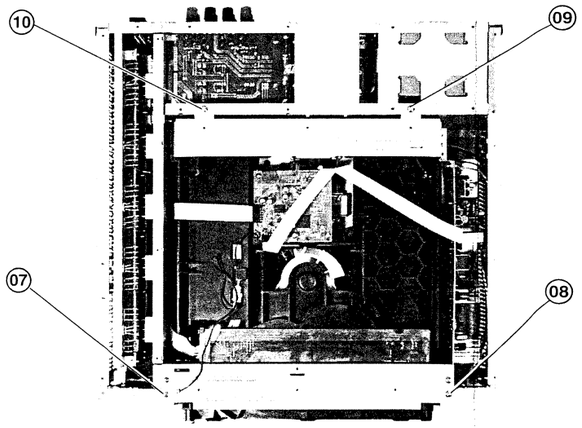
(7) After replacing the Pickup, open the short terminal on the PCB.

ACCESS TO DVD ASSEMBLY - ACCES A L'ENSEMBLE DVD - AUSBAU DER DVD-EINHEIT - ACCESSO ALL'INSIEME DVD - ACCESO AL CONJUNTO DVD

a) Disconnect - Déconnecter - Verbinder Lösen - Scollegare - Desconectar :

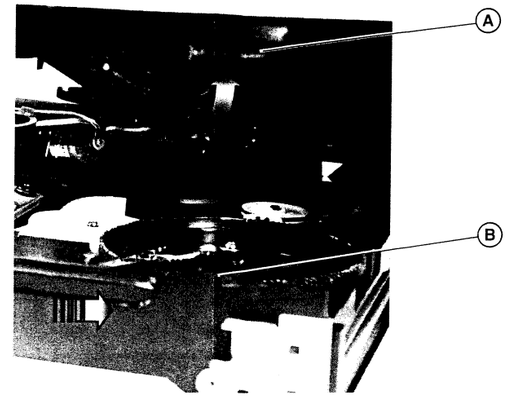


b) Unscrew - Dévisser - Schrauben lösen - Svitare - Desatornillar :



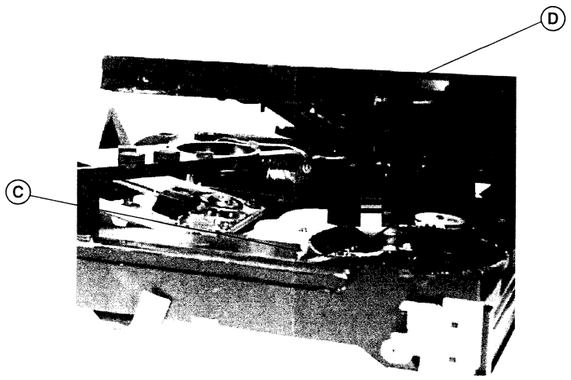
REPLACEMENT OF THE TRAY - REMPLACEMENT DU PLATEAU - AUSTAUSCH DER TABLETT - SOSTITUZIONE DEL PIATTO - SUSTITUCIÓN DE LA BANDEJA

a) Removal - Démontage - Ausbau - Smontaggio - Desmontaje :



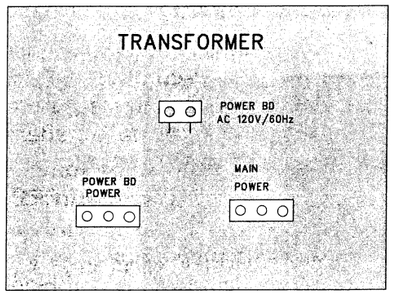
- Slide the tray until parts (A) and (B) are facing each other, then lift it.
- Glisser le plateau jusqu'à ce que les parties (A) et (B) soient en regard, puis le soulever.
- Den Ladeschlitten soweit herausziehen, bis sich die Teile (A) und (B) gegenüberliegen, dann anheben.
- Far scivolare il Piatto fin tanto che le parti (A) e (B) siano uno di fronte all'altro, poi sollevare il piatto.
- Deslizar la bandeja hasta que (A) y (B) coincidan y levantarla.

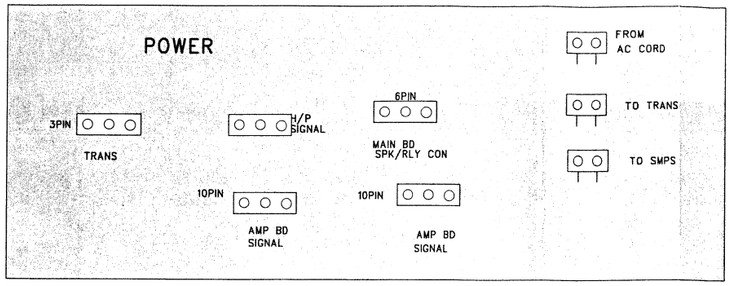
b/ Refitting - Remontage - Einbau - Rimontaggio - Montaje :

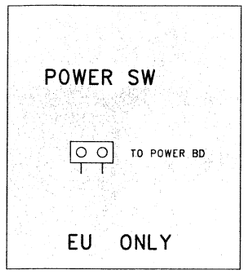


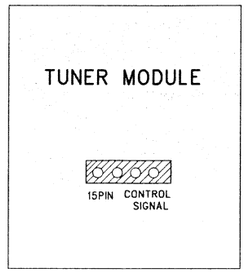
- Insert the nipple (C) into (D) groove of the control slide (pickup in the down position).
- Insérer le téton (C) dans la gorge (D) de la glissière de commandes (bloc optique en position basse).
- Führen Sie den Stift (C) in die Nut (D) des Steuerschiebers ein (Pickup in unterer Position).
- Inserire il perno (C) nel solco (D) dello scivolo dei comandi (pickup in posizione di riposo).
- Insertar el pivote (C) en la ranura (D) de la corredera de control de funciones (el lector láser en posición baja).

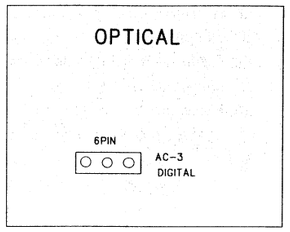
WIRING DIAGRAM - SCHEMA D'INTERCONNEXIONS - VERDRAHTUNGSPLAN - DIAGRAMMA DELLE INTERCONNESSIONI - ESQUEMA DE INTERCONEXIONES

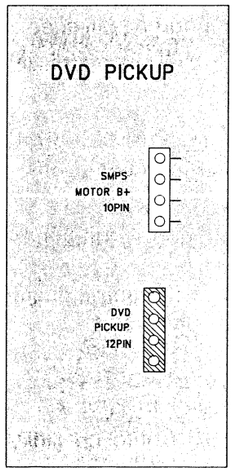


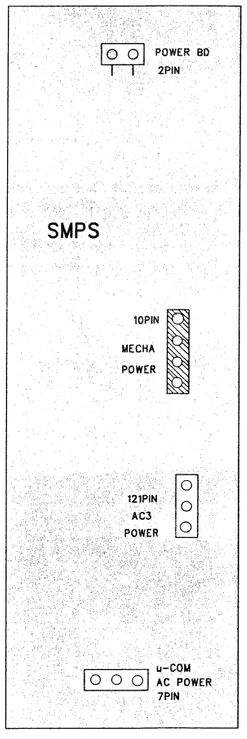


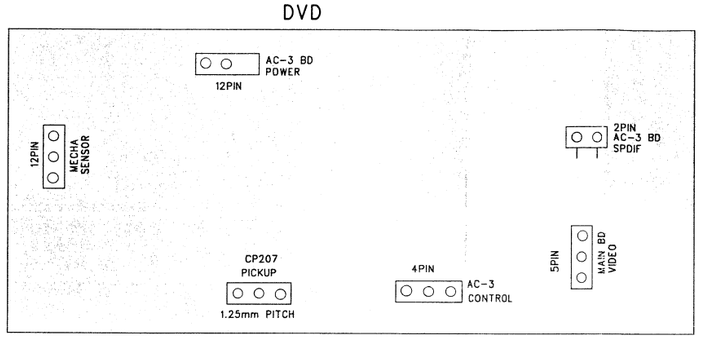


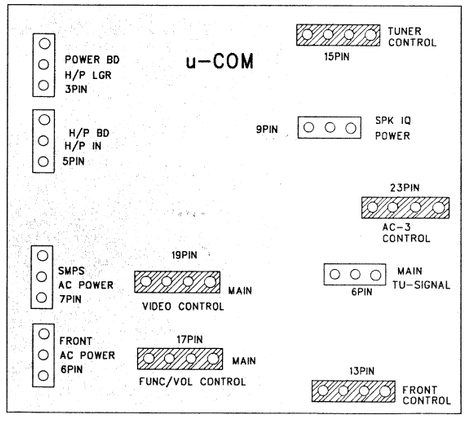


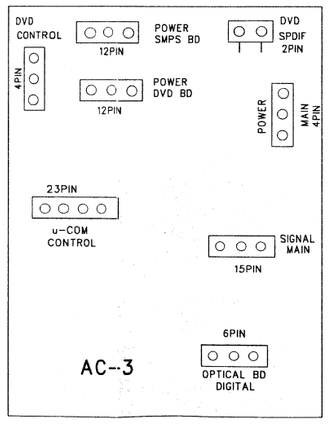


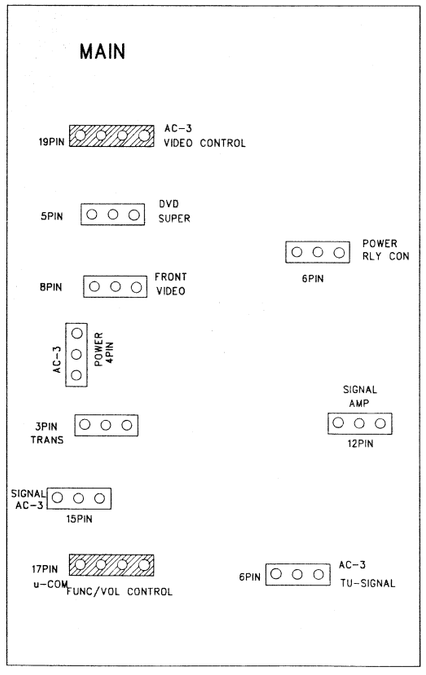


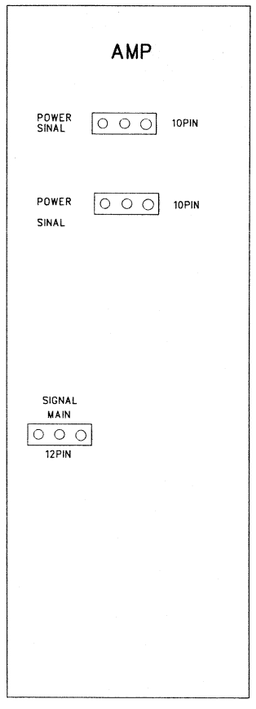


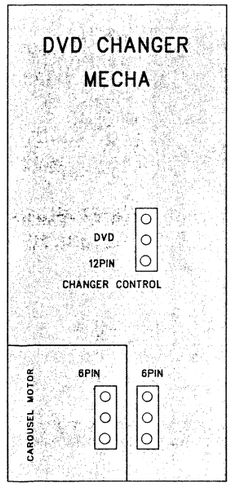


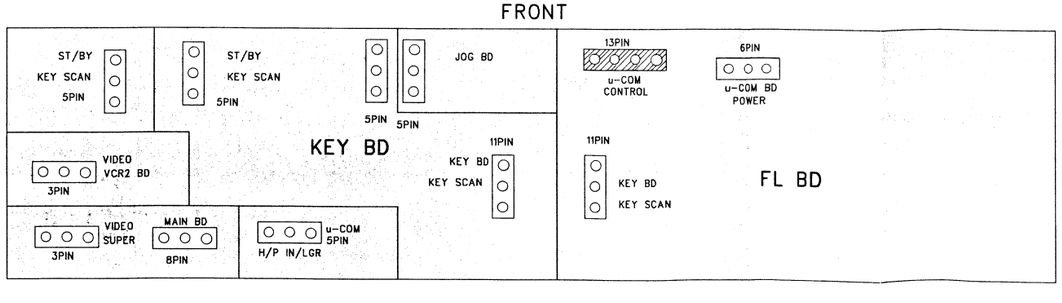




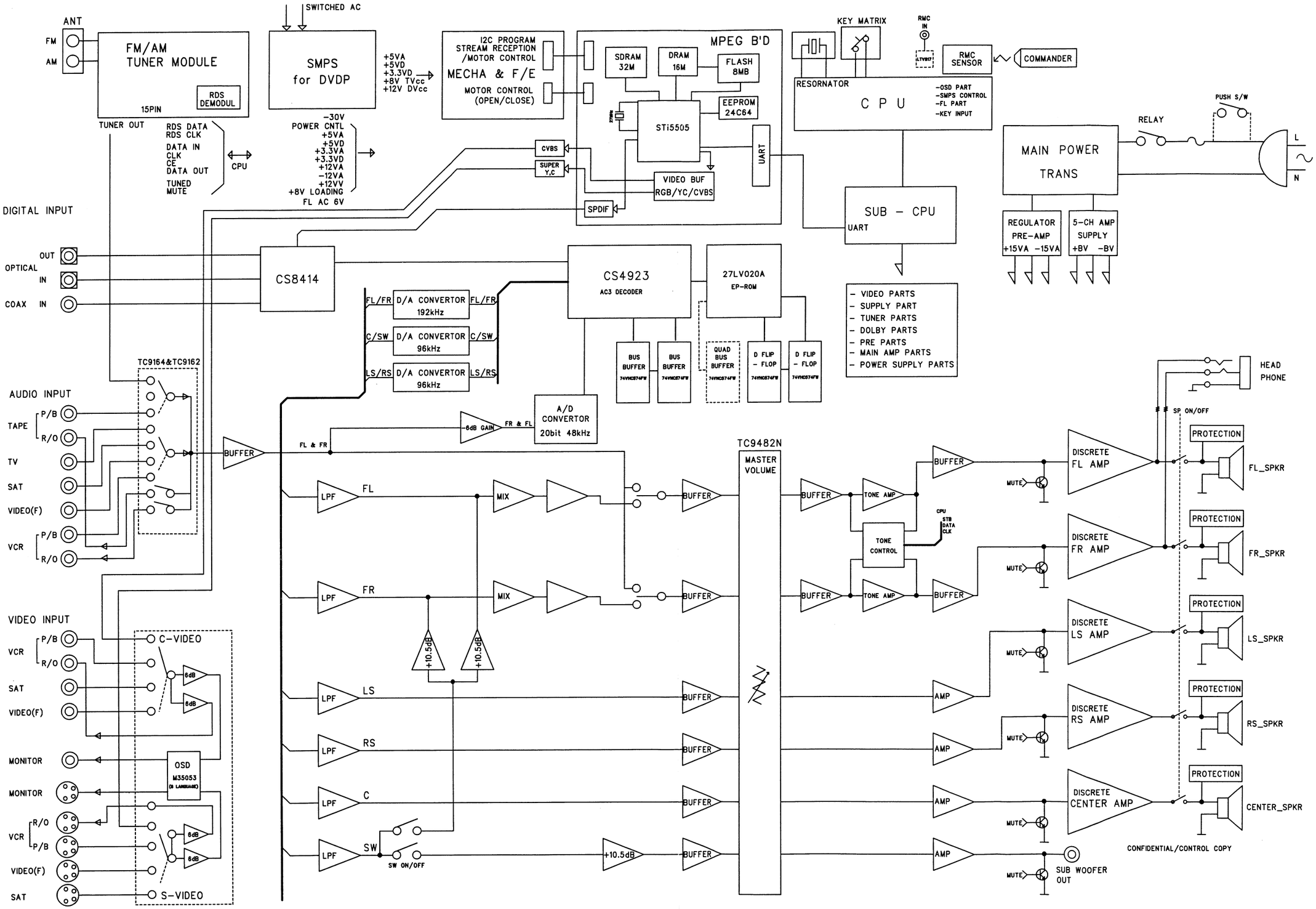




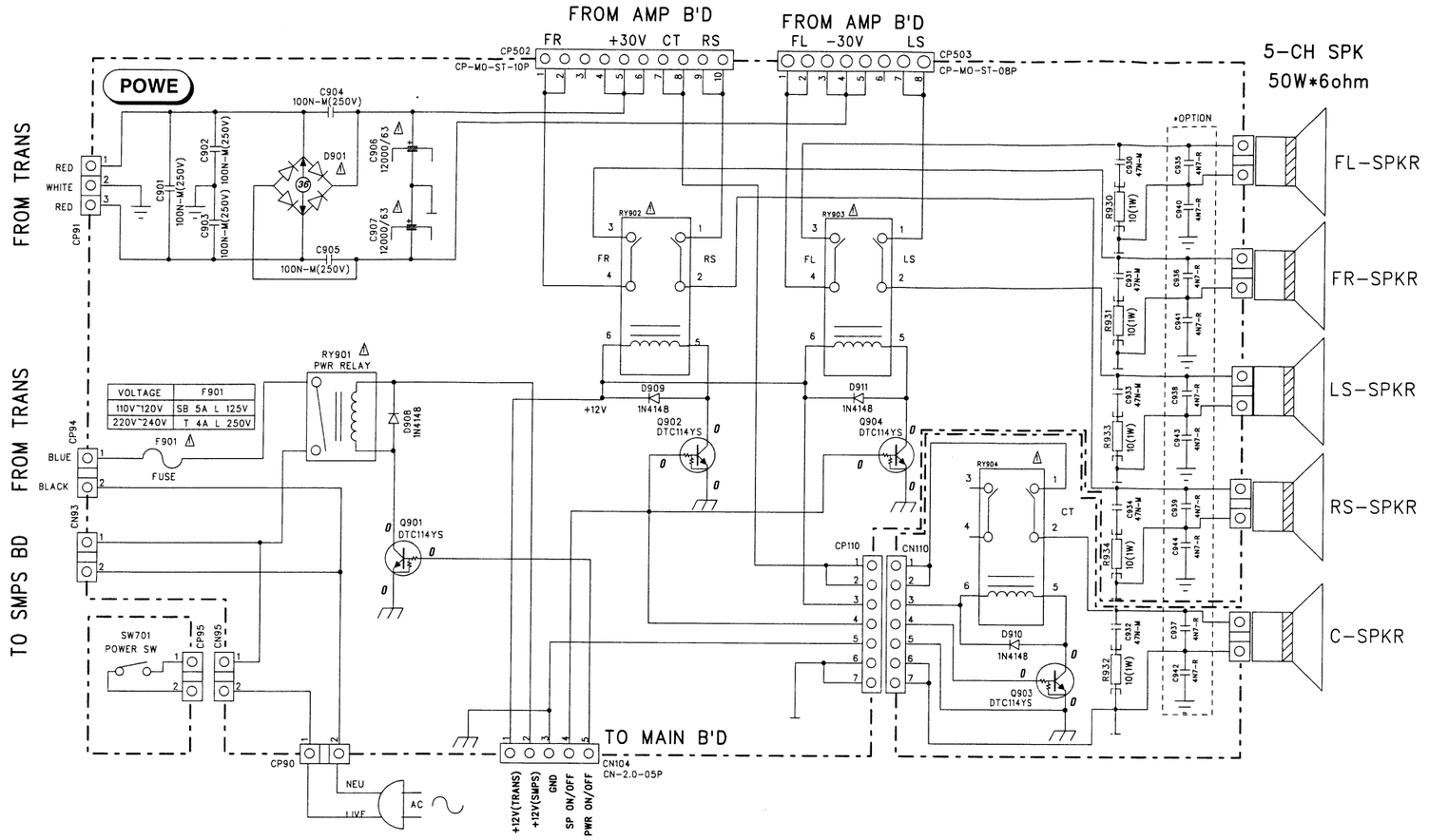


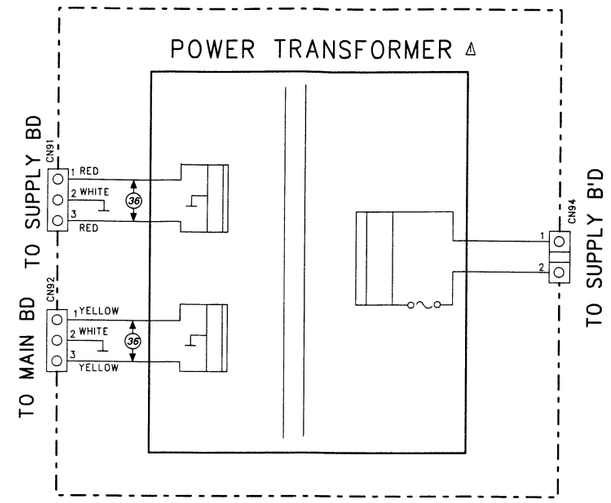


BLOCK DIAGRAM - SCHÉMA SYNOPTIQUE - BLOCKSCHALTBILD - SCHEMA A BLOCCHI - ESQUEMA DE BLOQUES



POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'ALIMENTATION - SCHALTBILD NETZTEIL - SCHEMA DELL' ALIMENTAZIONE - ESQUEMA DE LA ALIMENTACIÓN



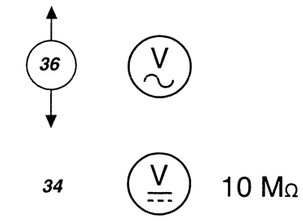


CAUTION:

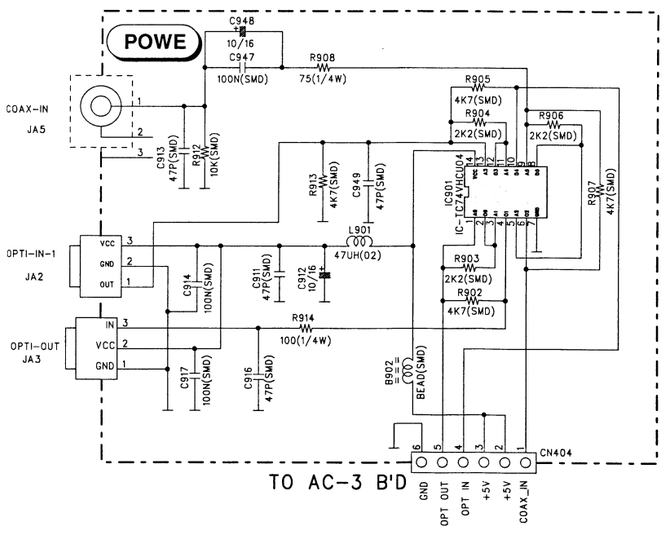
COMPONENTS DESIGNED BY THE SAFETY SYMBOL SHOULD. WHEN NECESSARY FOR REPAIR BE REPLACED BY ORIGINAL PARTS. APPROVED BY THE MANUFACTURER. ONLY THEN CAN CAN THE OPERATIONAL SAFETY BE GUARANTEED.

NOTES:

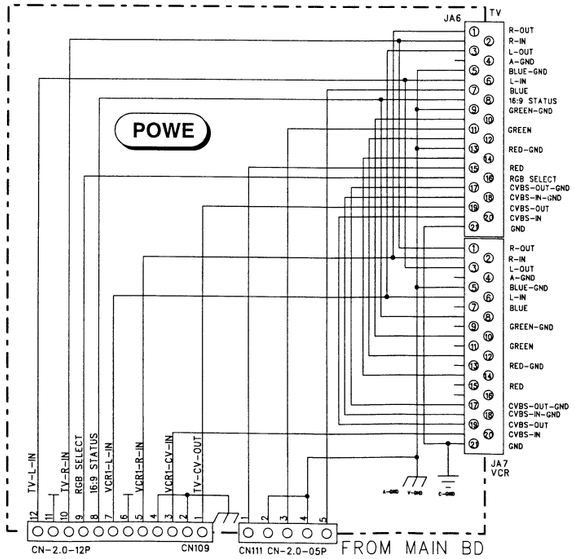
1. Resistor values are indicated in ohms unless otherwise specified (k=1,000 M=1,000,000)
2. Capacitor values are indecated in microfarades unless otherwise specified. (p=picofarades)
3. ⚠ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit



DIGITAL INPUT/OUTPUT SCHEMATIC DIAGRAM - SCHEMA ENTRÉE/SORTIE NUMERIQUES - SCHALTBID DIGITAL EINGANG/AUSGANG - SCHEMA INGRESSO/USCITA DIGITALE - ESQUEMA ENTRADA/SALIDA DIGITAL

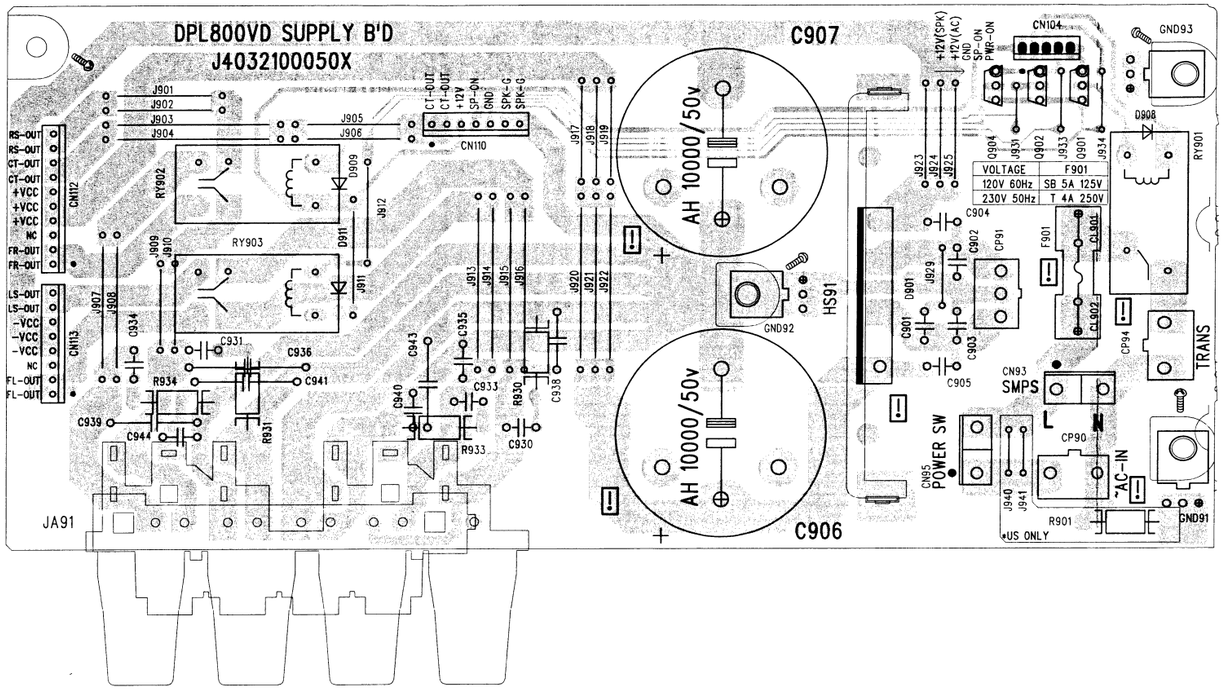


SCART INTERFACE SCHEMATIC DIAGRAM - SCHEMA DE L'INTERFACE PÉRITÉLÉISION - SCHALTBILD EUROPA NORMBUCHSE - SCHEMA DELL PRESA PERITEL - ESQUEMA DE EUROTOMA

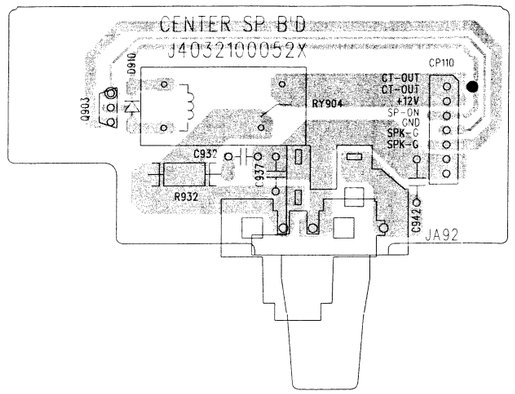


DRD 1001
First issue 11 / 00

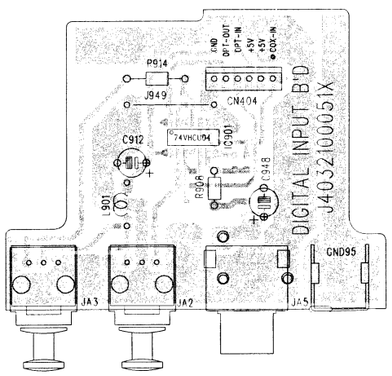
Power supply /speaker P.C.B
Platine alimentation/haut-parleurs
Ltpl. Netzteil/Lautsprecher
Piastra alimentazione/altoparlanti
Platina alimentación/altavoces

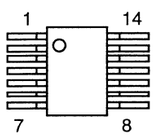


Speaker P.C.B.
Platine haut-parleurs
Ltpl. Lautsprecher
Piastra altoparlanti
Platina altavoces



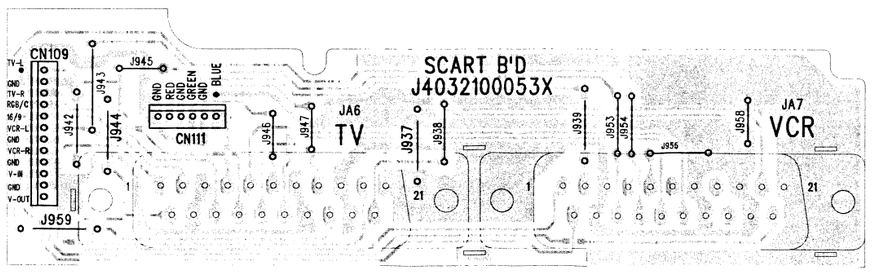
Digital input P.C.B.
Platine entrees numériques
Ltpl. Digital Eingang
Piastra ingresso digitale
Platina entrada digital



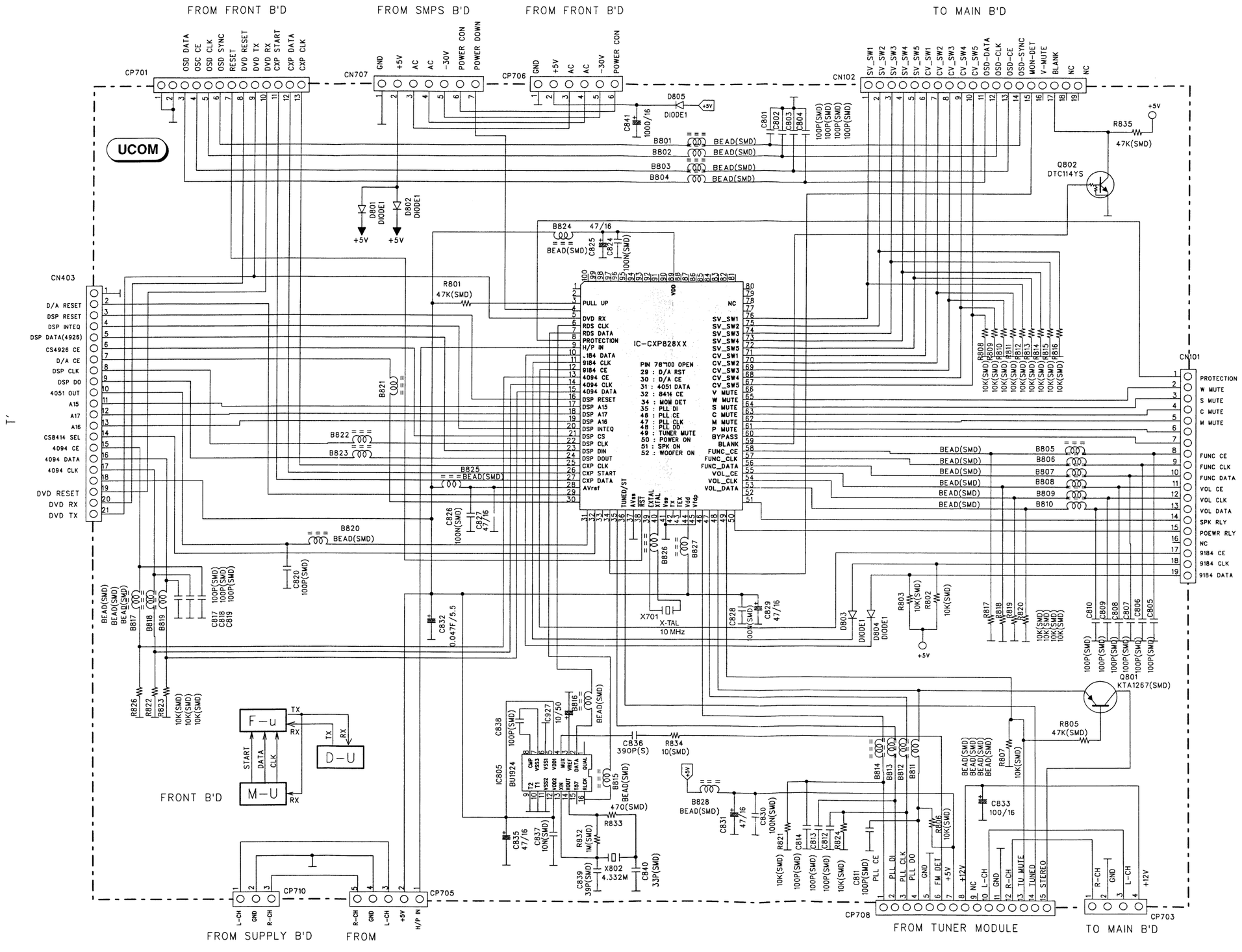


TC 74VHCU04

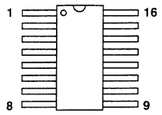
Scart interface P.C.B.
Platine interface péritélévision
Ltpl. Europa Normbuchse
Piastra presa peritel
Platina eurotoma



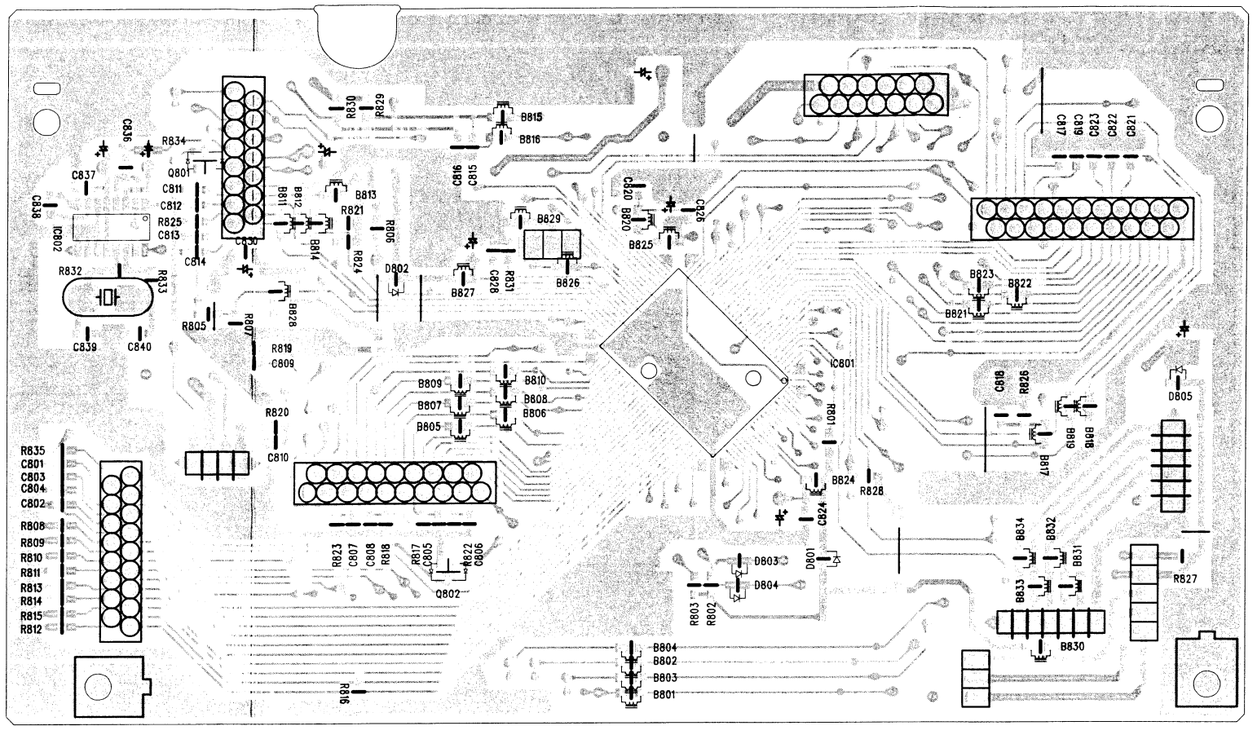
MICROCONTROLLER SCHEMATIC DIAGRAM - SCHEMA MICROCONTROLEUR - SCHALTBILD MICROCONTROLLER - SCHEMA MICROPROCESSORE - ESQUEMA MICROCONTROLADOR



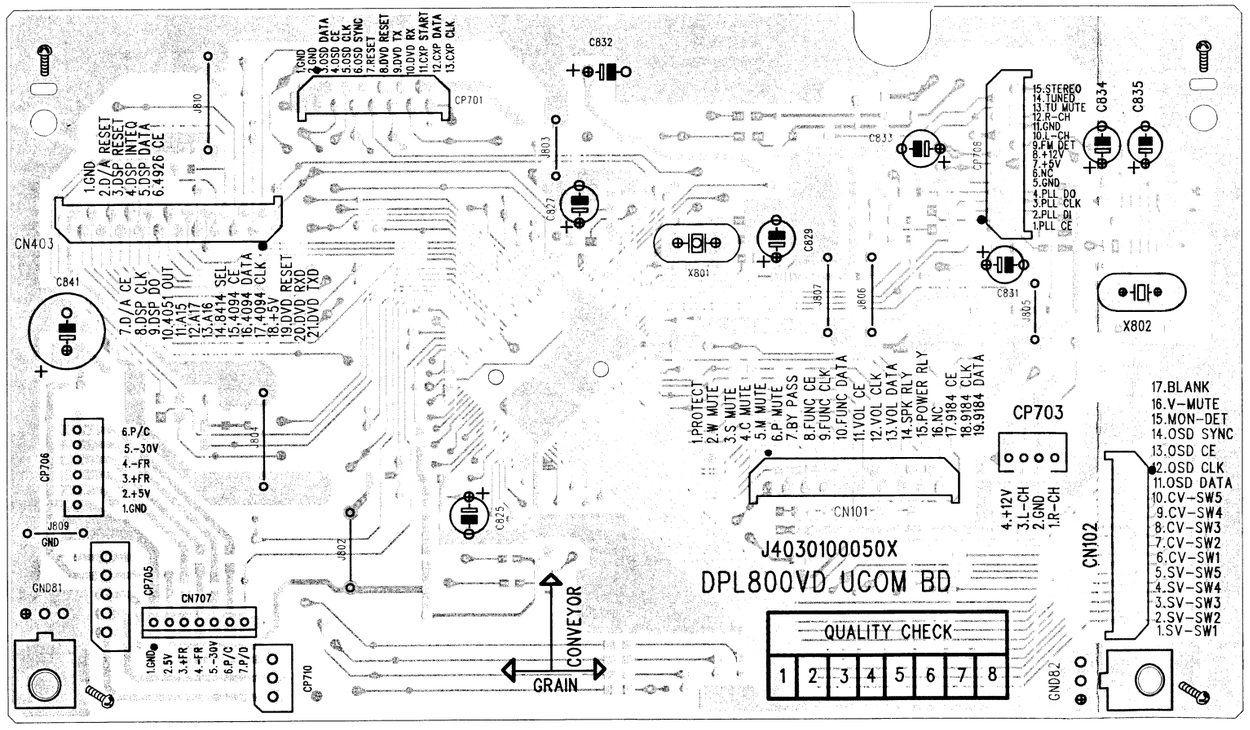
Microcontroller P.C.B.
Platine Microcontroleur
Ltpl Microcontroller
Piastra Microprocessore
Platina Microcontrolador



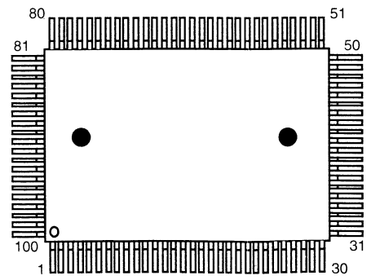
BU 1924



Solder side
Côté soudure
Lötseite
Lato saldature
Lado del cobre

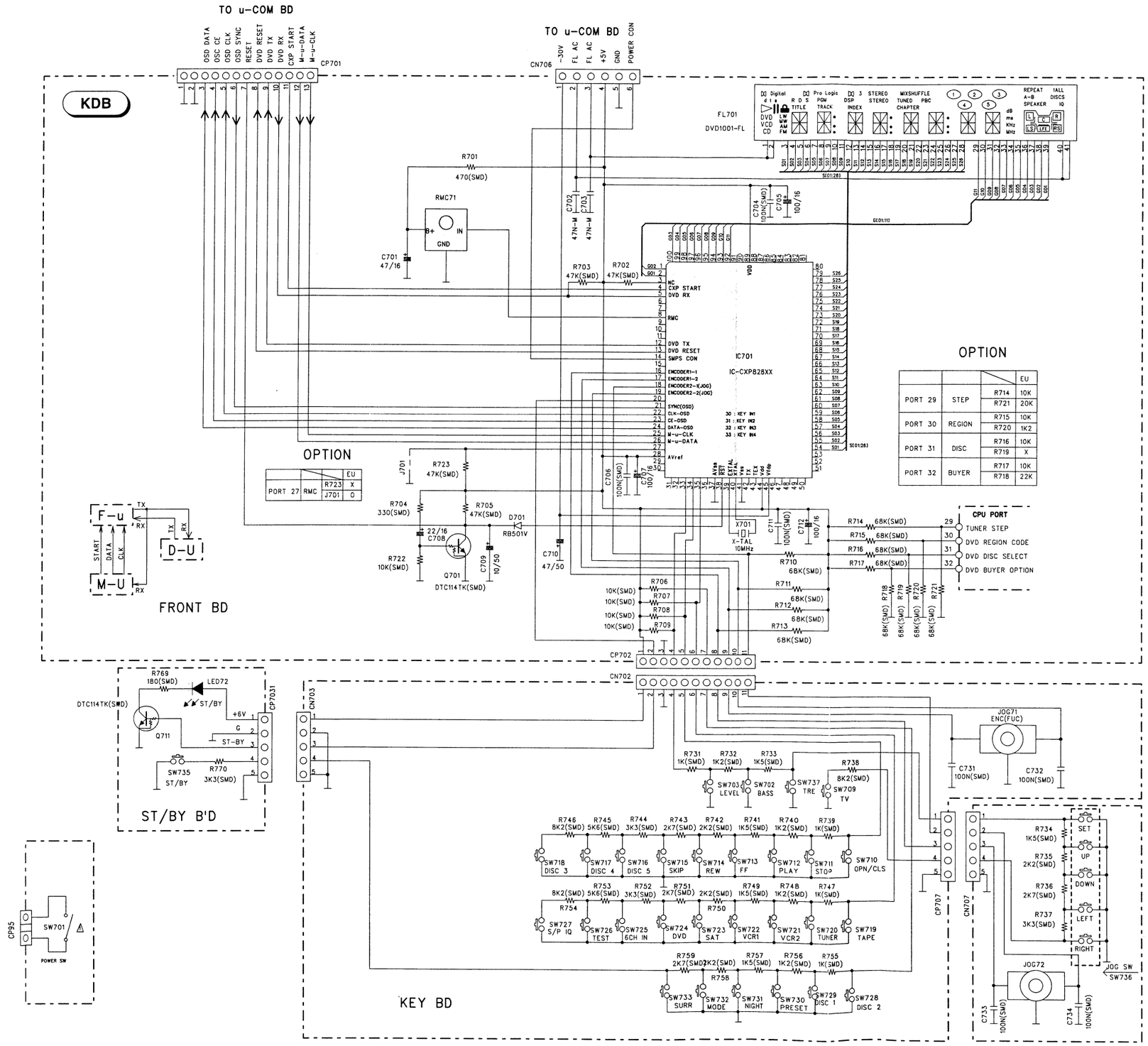


Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes



CXP828XX

CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - SCHALTBILD BEDIENTEIL / ANZEIGE - SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / INDICADOR



NOTES:

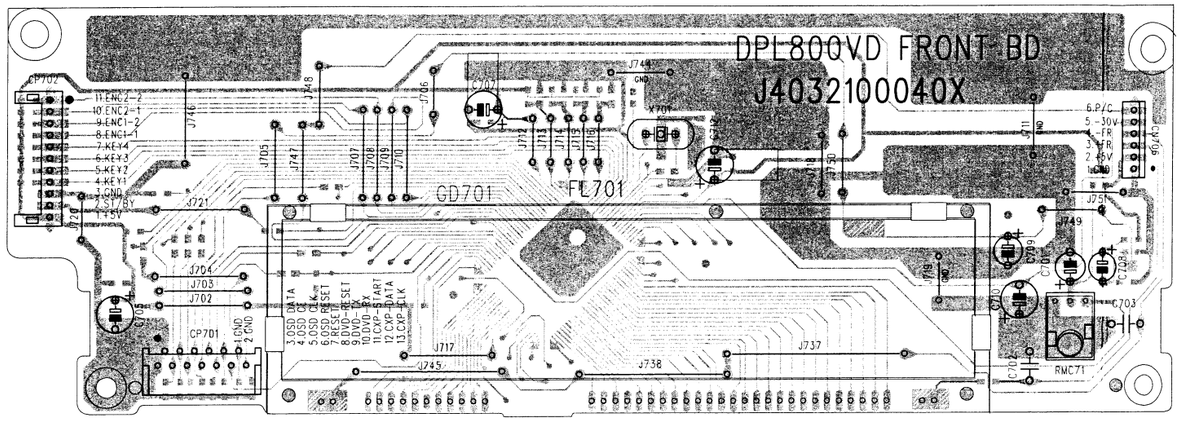
1. Resistor values are indicated in ohms unless otherwise specified (k=1,000 M=1,000,000)
2. Capacitor values are indicated in microfarades unless otherwise specified. (p= picofarades)
3. ⚠ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit

CAUTION: ⚠

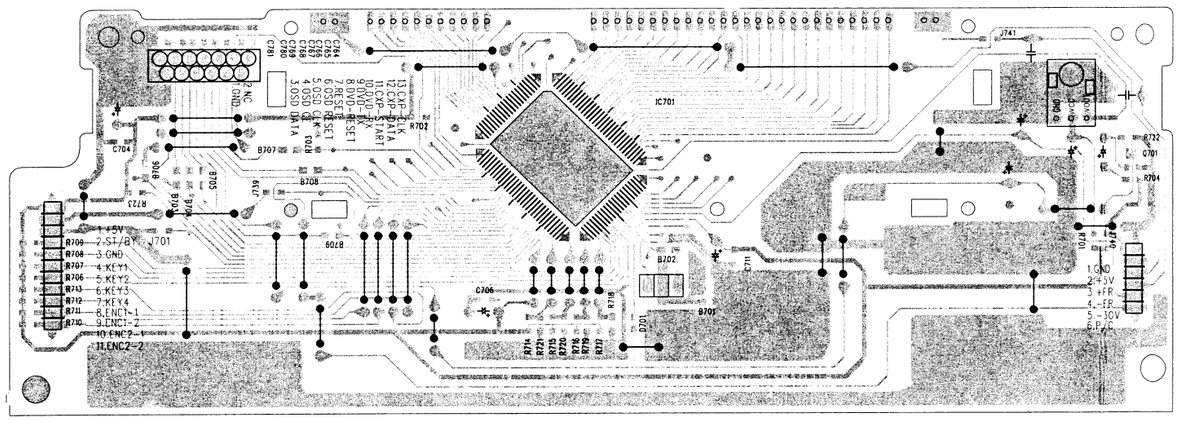
COMPONENTS DESIGNED BY THE SAFETY SYMBOL SHOULD. WHEN NECESSARY FOR REPAIR BE REPLACED BY ORIGINAL PARTS. APPROVED BY THE MANUFACTURER. ONLY THEN CAN CAN THE OPERATIONAL SAFETY BE GUARANTEED.

Controls / display P.C.B.
Platine commandes / afficheurs
Ltpl. Bedienteil / Anzeige
Piastra comandi / indicatore
Platina de mandos / indicadores

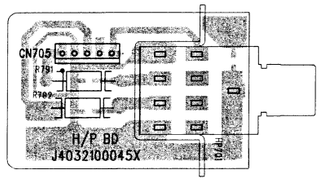
Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes



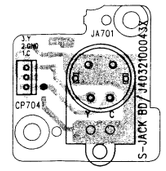
Solder side
Côté soudure
Lötseite
Lato saldatura
Lado del cobre



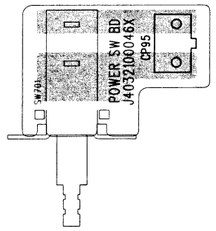
Headphone-jack P.C.B.
Platine prise-casque
Ltpl. Kopfhörerbuchse
Piastra presa per cuffia
Platina toma auriculares



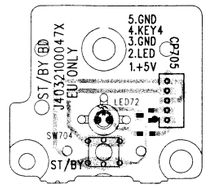
S-video jack P.C.B.
Platine prise S-vidéo
Ltpl. S-video Buchse
Piastra presa S-video
Platina toma S-vídeo



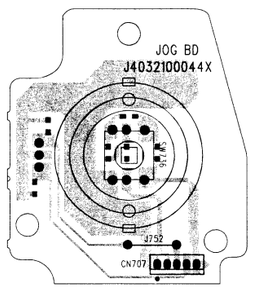
ON / OFF Switch P.C.B.
Platine inter M / A
Ltpl. EIN / AUS - Schalter
Piastra interruttore
Platina interruptor

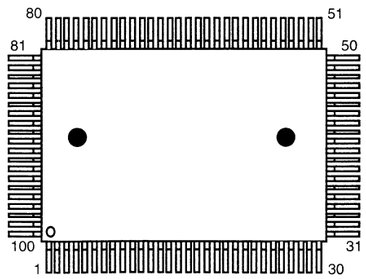


Standby switch P.C.B.
Platine inter. veille
Ltpl. Standby-Schalter
Piastra interruttore standby
Platina interruptor standby



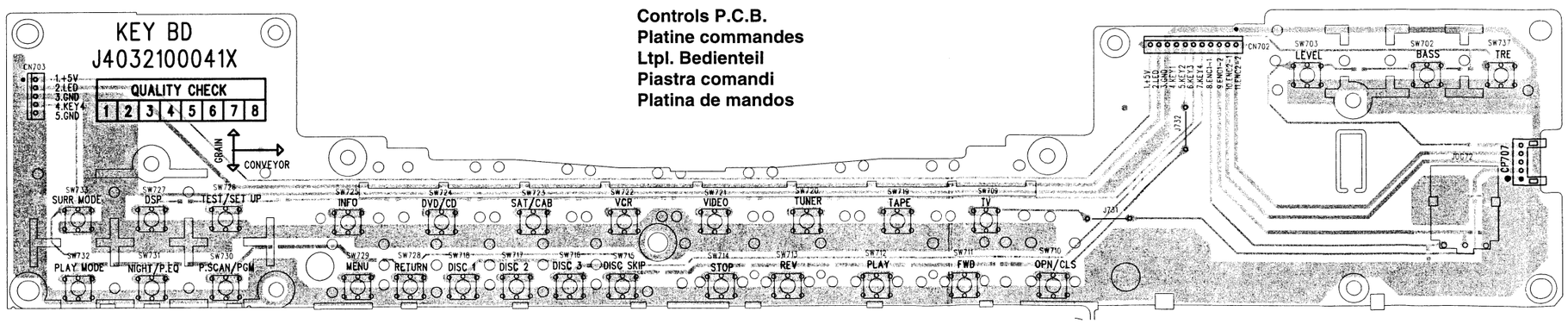
Controls P.C.B.
Platine commandes
Ltpl. Bedienteil
Piastra comandi
Platina de mandos



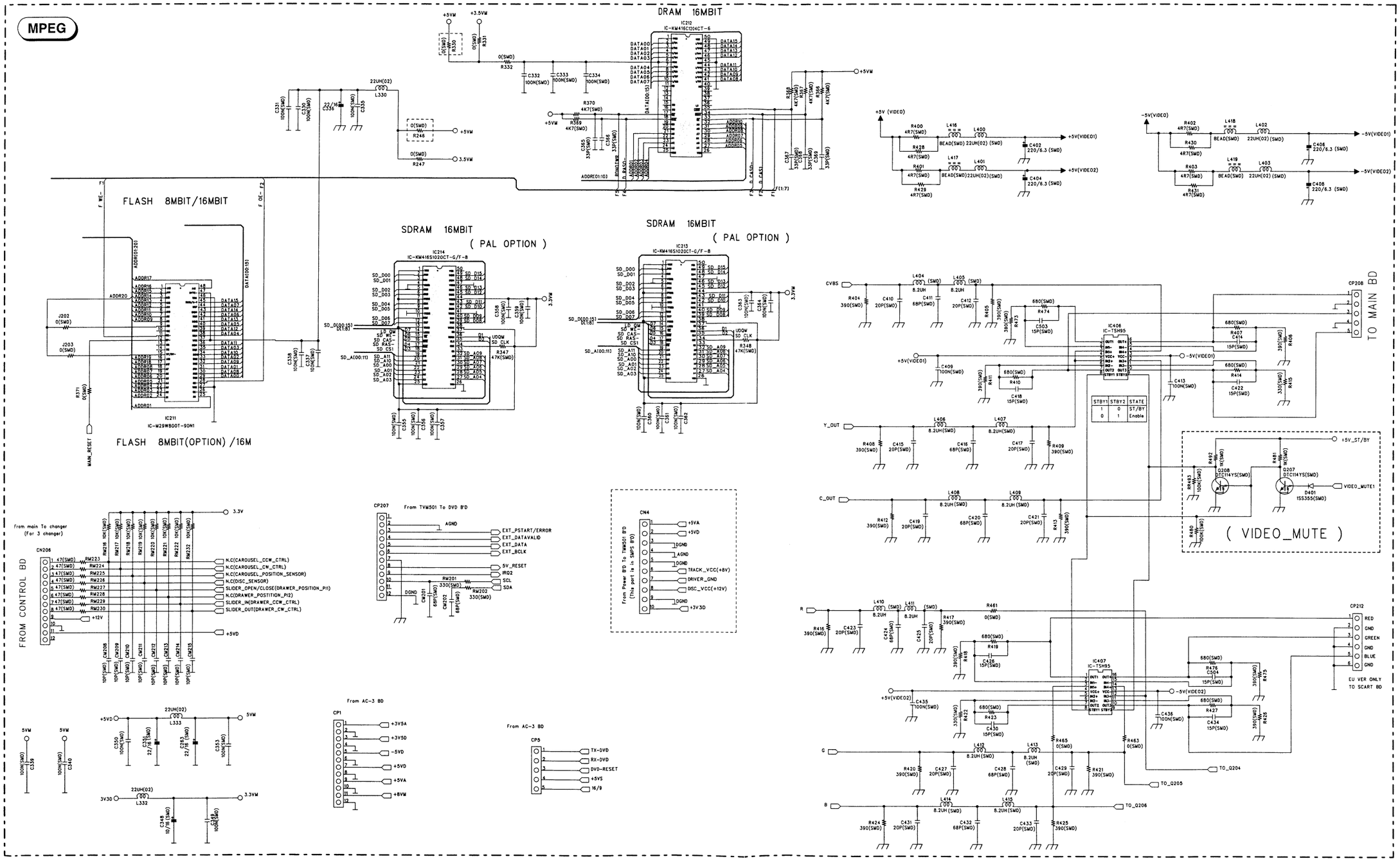


CXP828XX

Controls P.C.B.
Platine commandes
Ltpl. Bedienteil
Piastra comandi
Platina de mandos



MPEG SHEMATIC DIAGRAM - SCHEMA DE LA PLATINE MPEG - SCHALTBILD MPEG - SCHEMA DELLA PIASTRA MPEG - ESQUEMA DE LA PLATINA MPEG (MEMORY PART)



MPEG SHEMATIC DIAGRAM - SCHEMA DE LA PLATINE MPEG - SCHALTBILD MPEG - SCHEMA DELLA PIASTRA MPEG - ESQUEMA DE LA PLATINA MPEG (DECODER PART)

MPEG

IC201

IC-STI5505 AVB

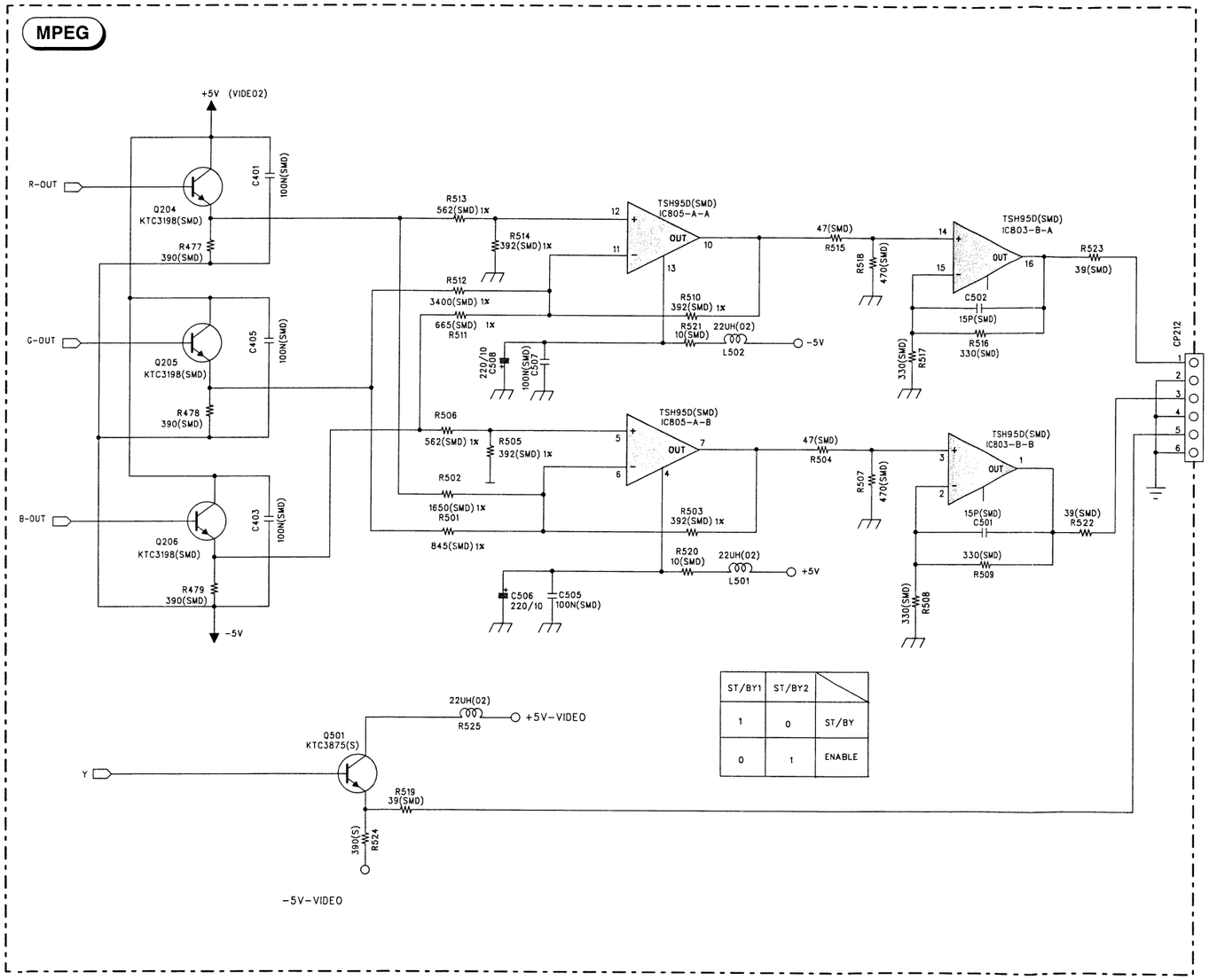
(Test Jig)

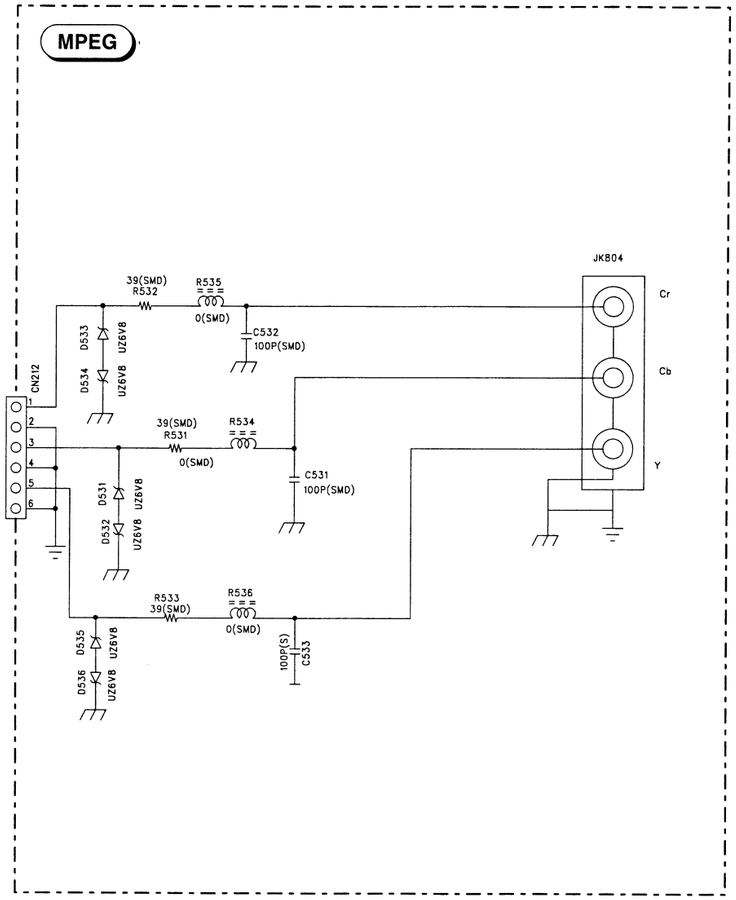
TEST B'D

< TEST B'D >

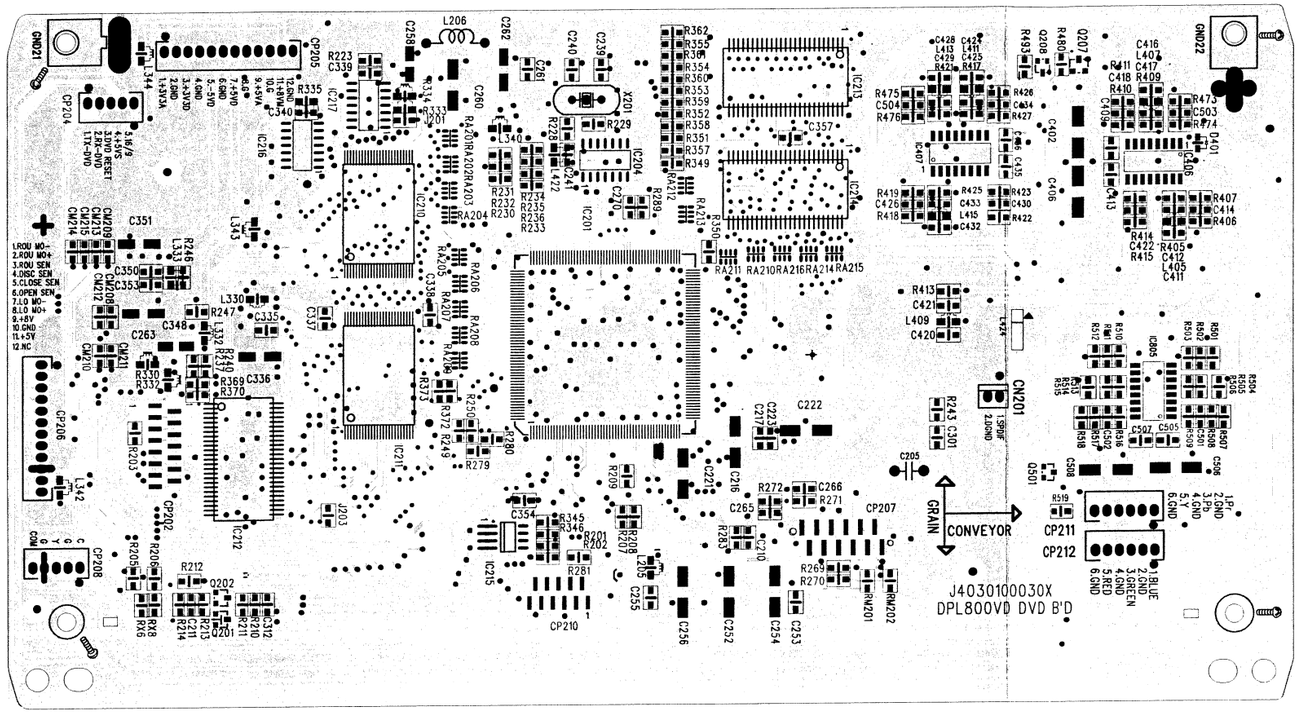
(OPTION)

MPEG SHEMATIC DIAGRAM - SCHEMA DE LA PLATINE MPEG - SCHALTBILD MPEG - SCHEMA DELLA PIASTRA MPEG - ESQUEMA DE LA PLATINA MPEG (OUTPUT PART)

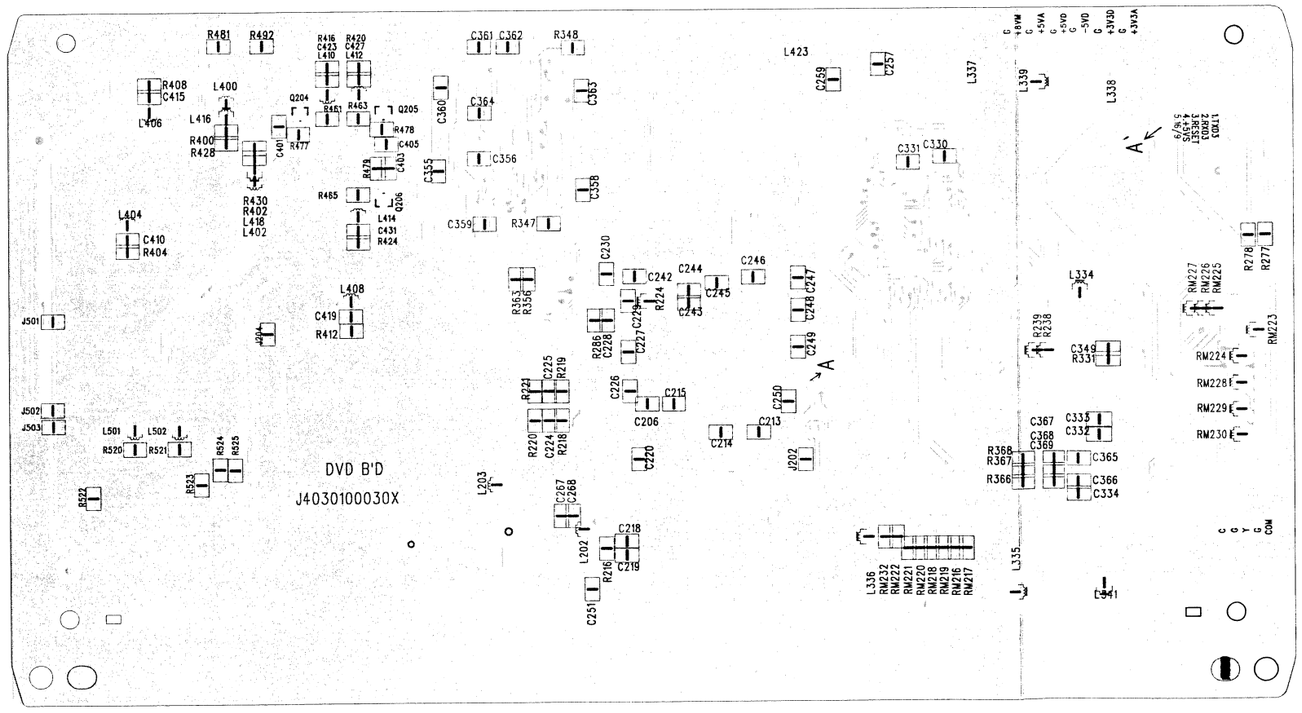




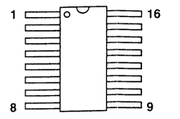
MPEG P.C.B.
Platine MPEG
Ltpl MPEG
Piastra MPEG
Platina MPEG



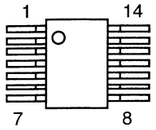
Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes



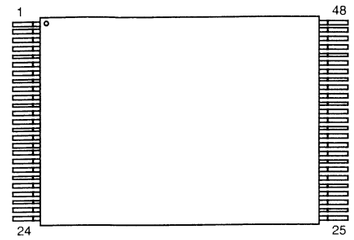
Solder side
Côté soudure
Lötseite
Lato saldature
Lado del cobre



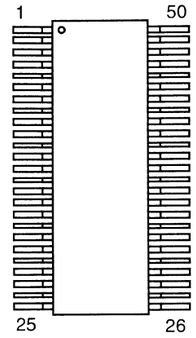
TSH95



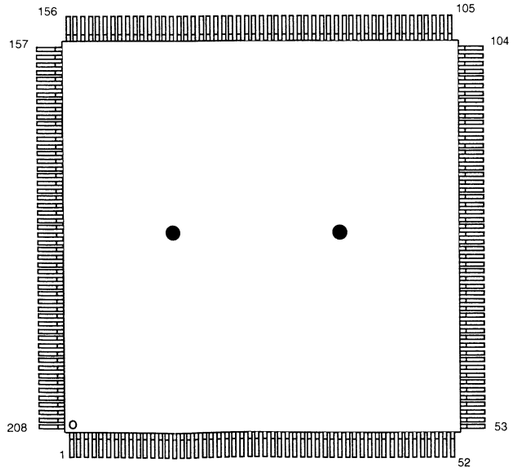
74HCU04



M29W800T

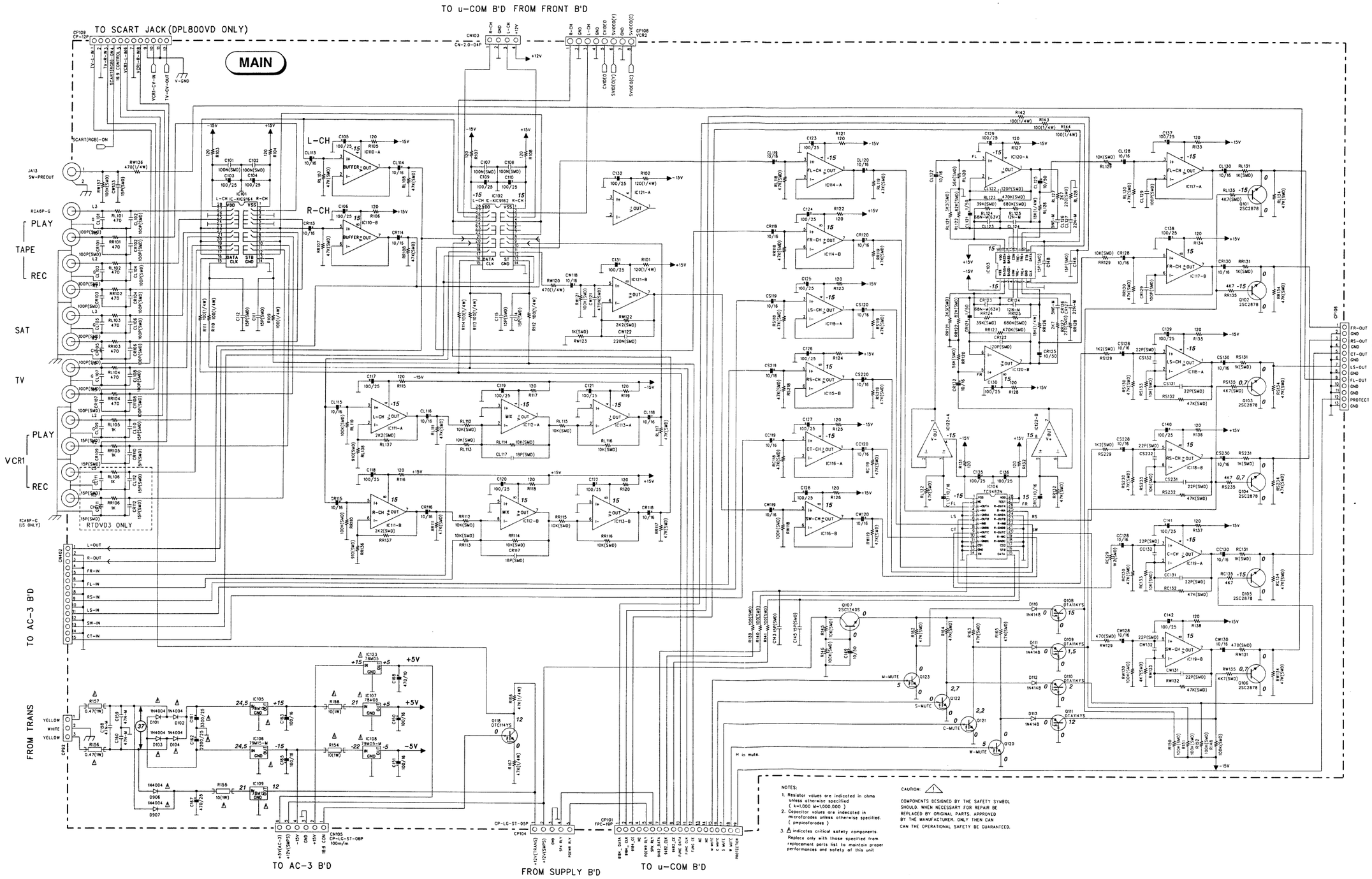


KM416C1204CT
KM416S1020CT

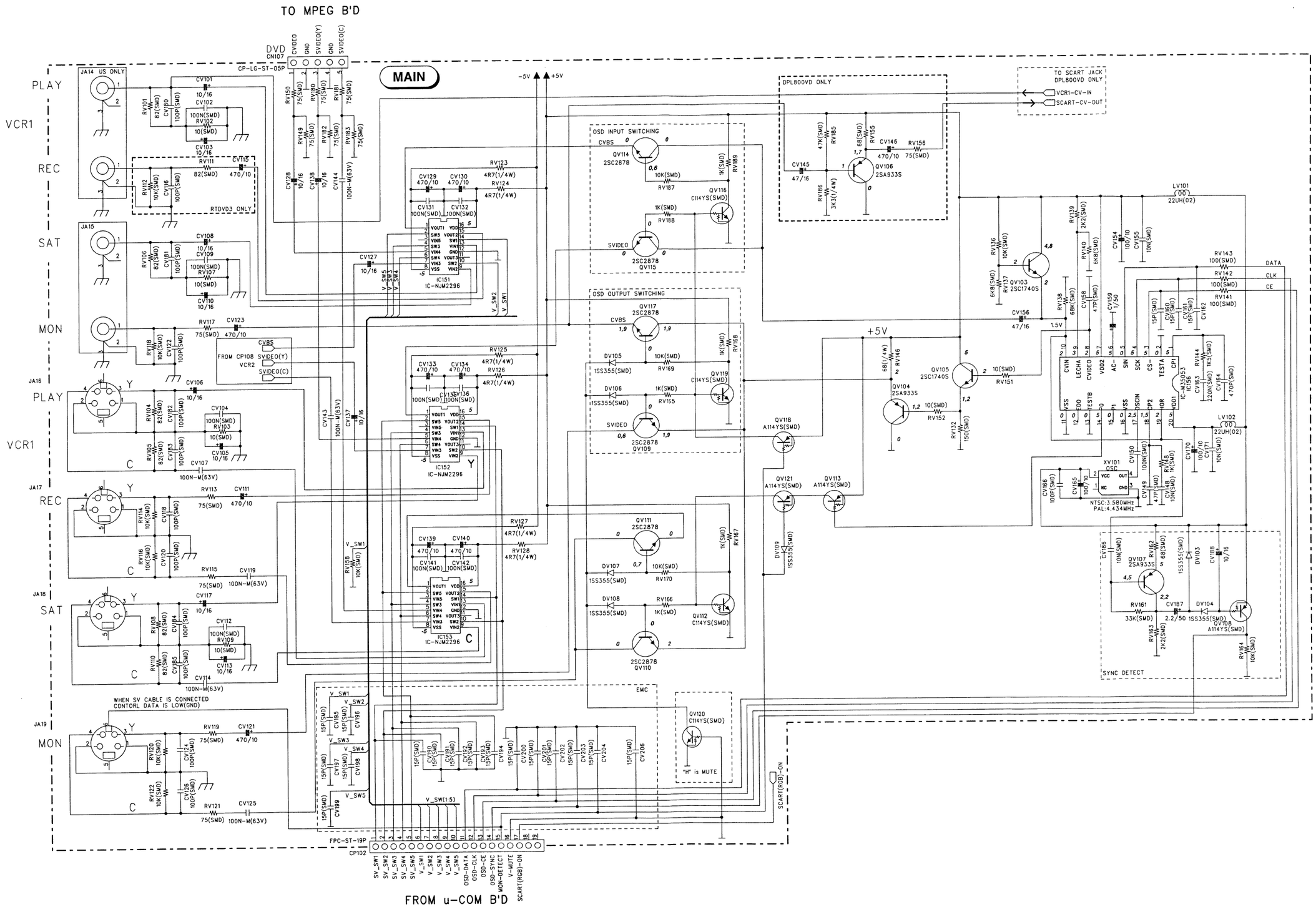


STI5505

MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA DELLA PIASTRA PRINCIPALE - ESQUEMA DE LA PLATINA PRINCIPAL (PRE-AMPLIFIER PART)

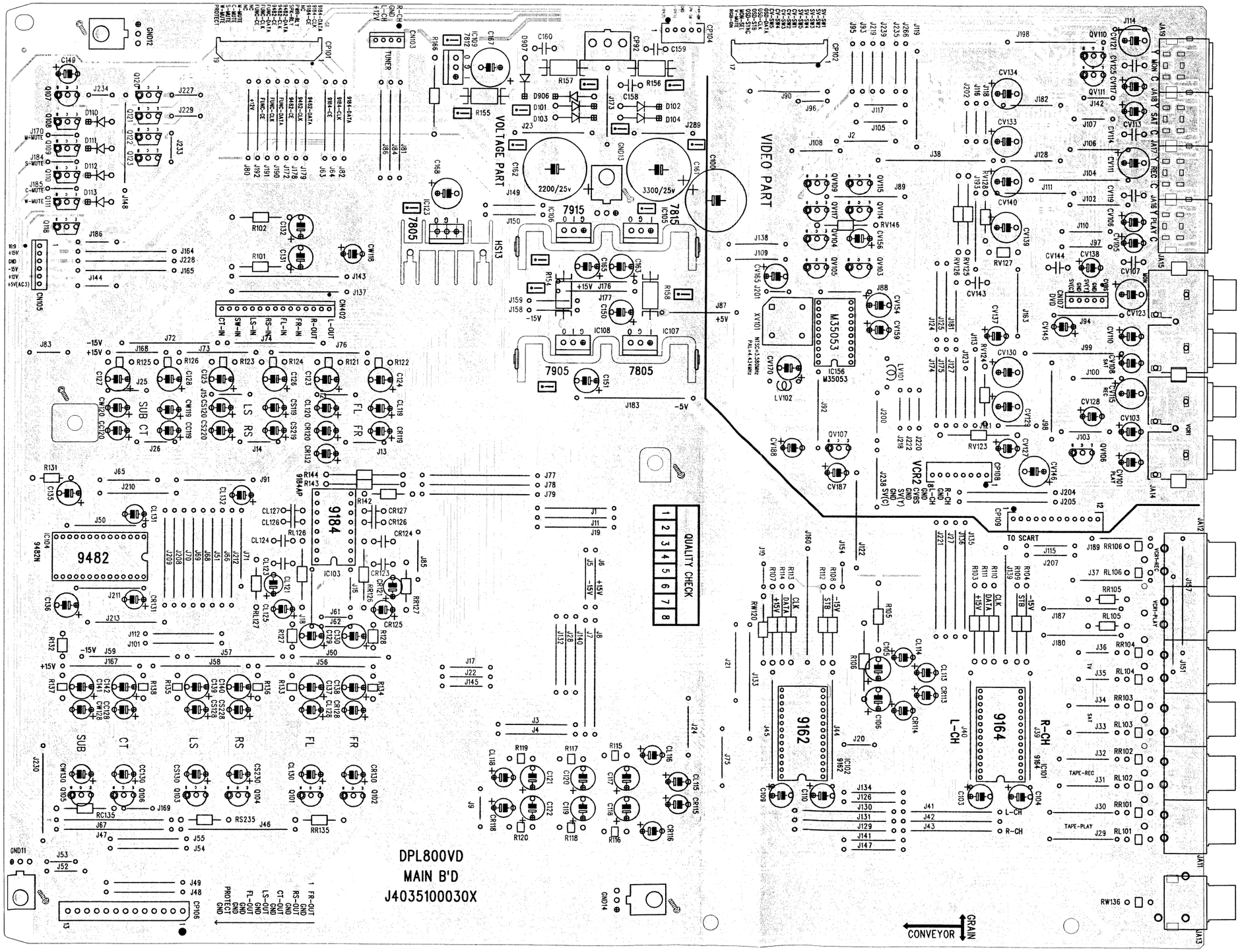


MAIN SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE PRINCIPALE - GRUNDPLATTE SCHALTBILD - SCHEMA DELLA PIASTRA PRINCIPALE- ESQUEMA DE LA PLATINA PRINCIPAL (INPUT/OUTPUT PART)



Main P.C.B.
Platine principale
Grundplatte
Piastra principale
Platina principal

Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes



MPSA56 2SK117Y

2SC1740S BKTA1266 KTD1302 2SC2870 KRA107M DTA114YS DTC114TS

78M15 78M05 78M06 KIA7805A

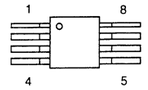
79M05 79M15

BA033T

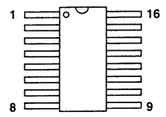
DRD 1001
First issue 11 / 00

Main P.C.B.
Platine principale
Grundplatte
Piastra principale
Platina principal

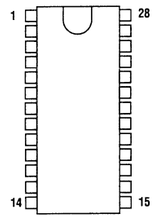
Solder side
Côté cuivre
Lötseite
Lato saldature
Lado del cobre



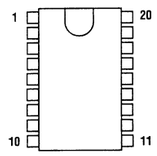
NJM2068



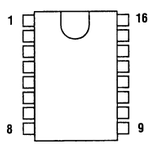
BU4094



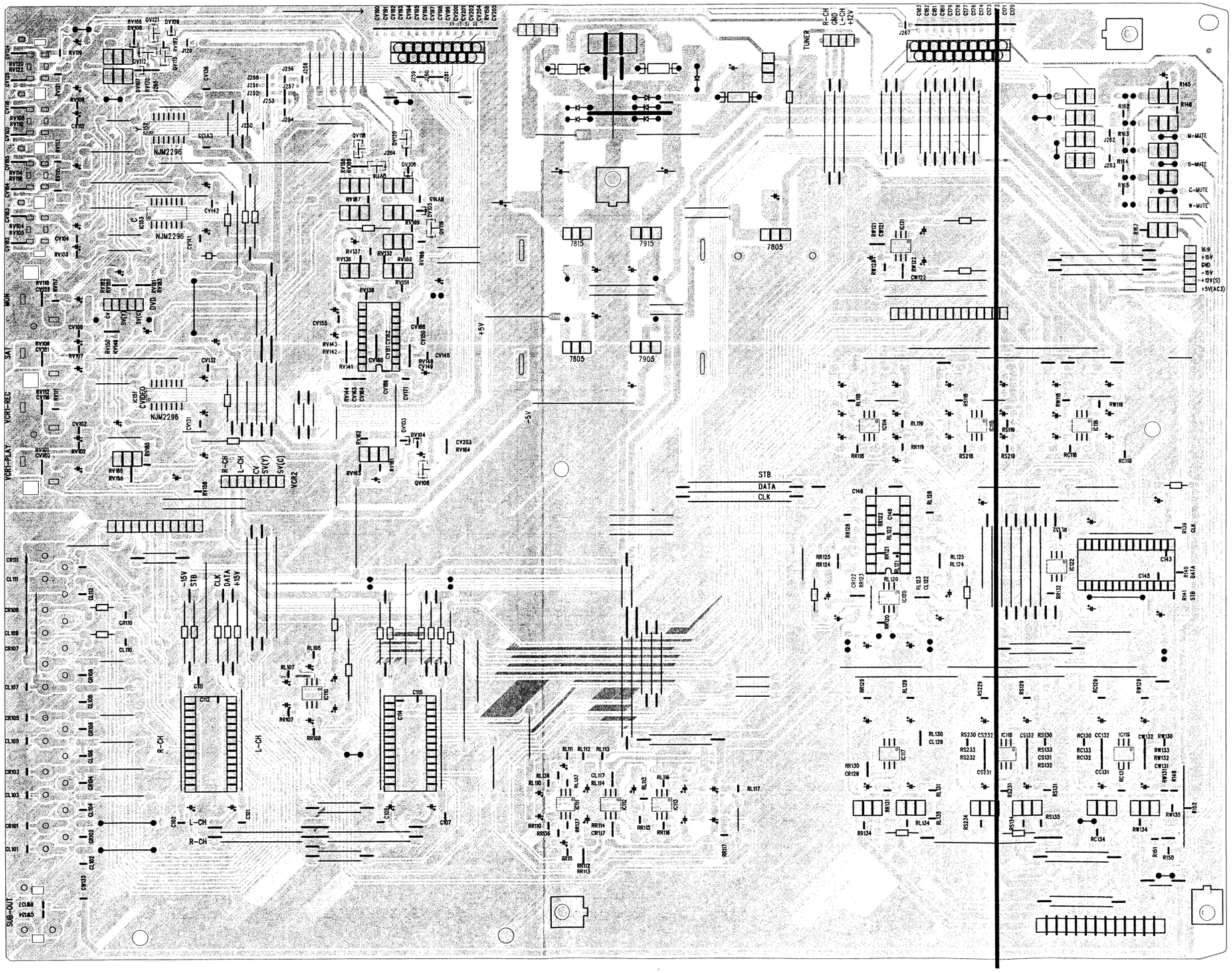
KIC9162AN
KIC9164
KIC9482N



M35053

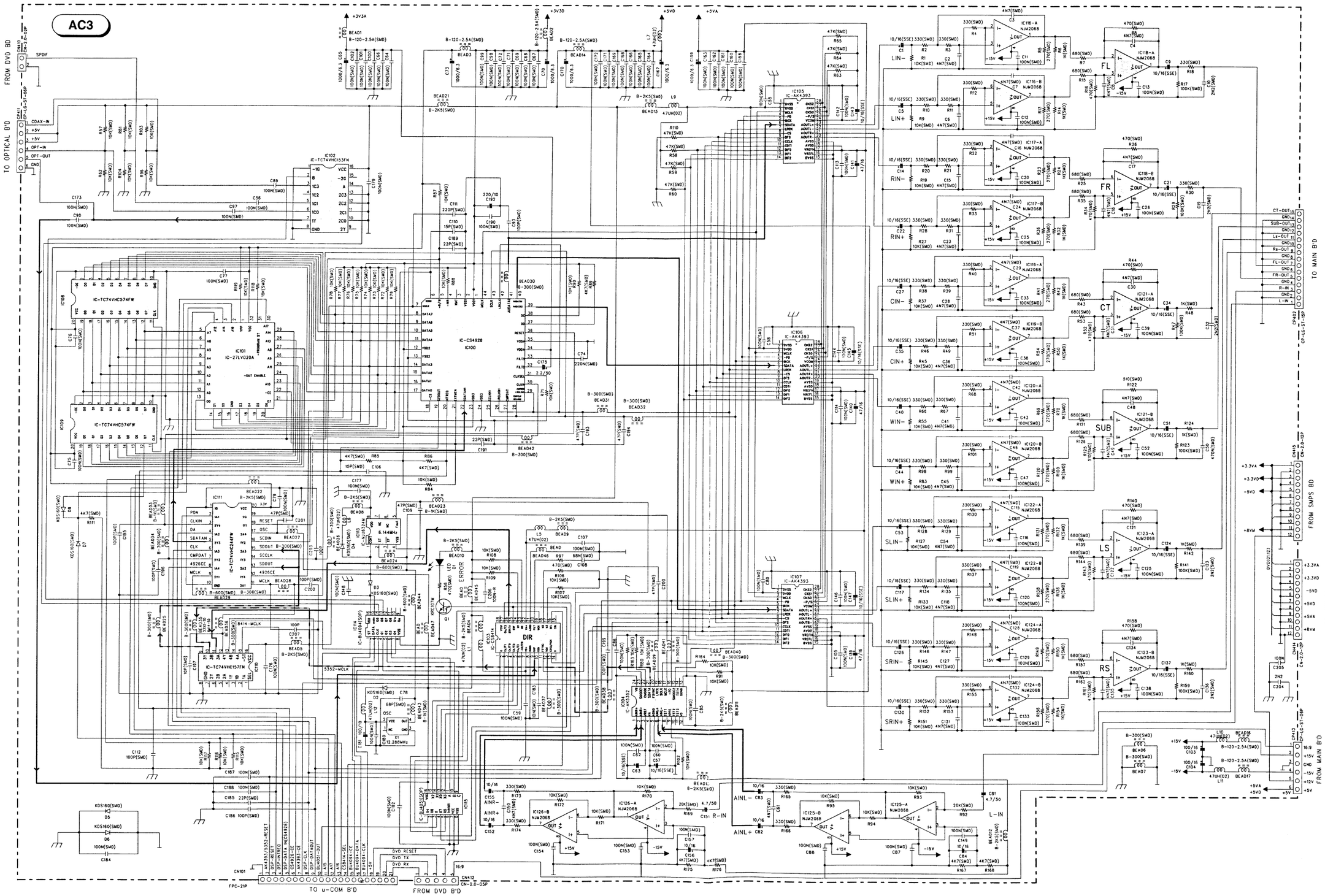


NJM2296D
BU4053BC
TC9184AP



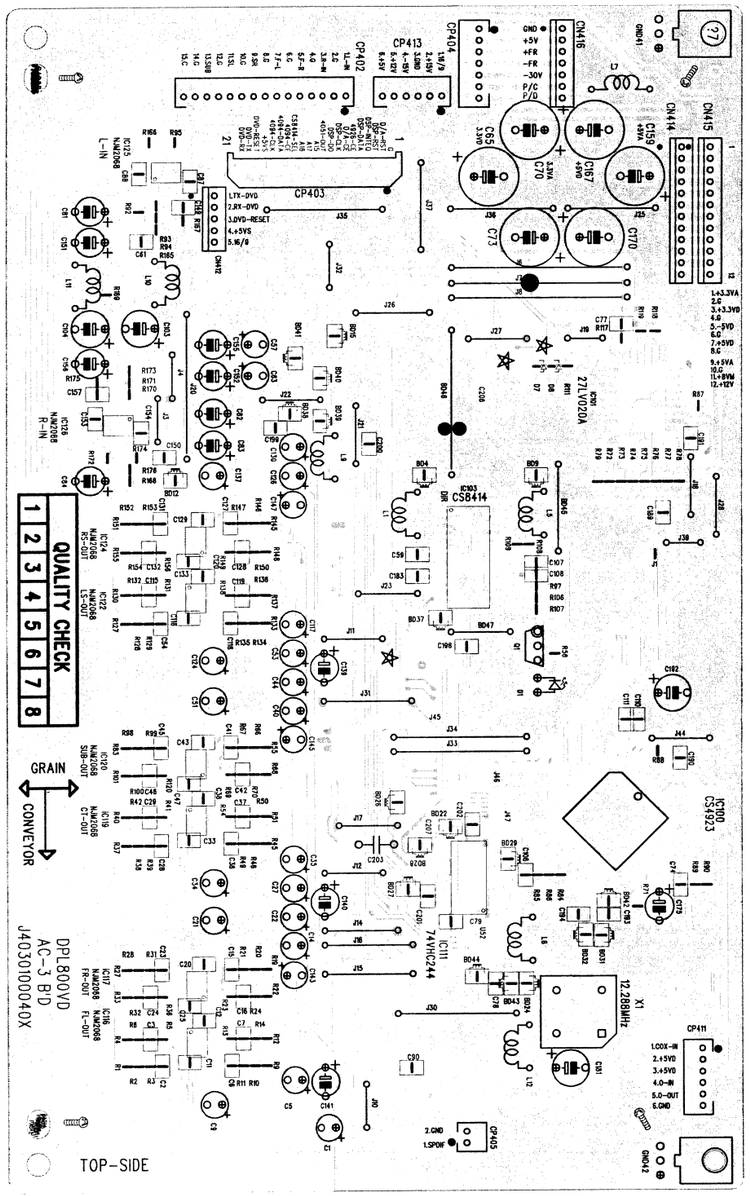
DRD 1001
First issue 11 / 00

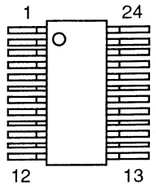
DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL



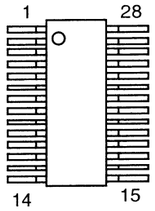
Digital processing P.C.B.
Platine traitement digital
Ltpl. Digitalverarbeitung
Piastra elaborazione digitale
Platina tratamiento digital

Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

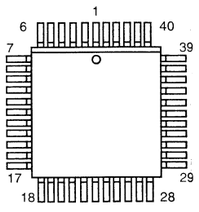




AK5352

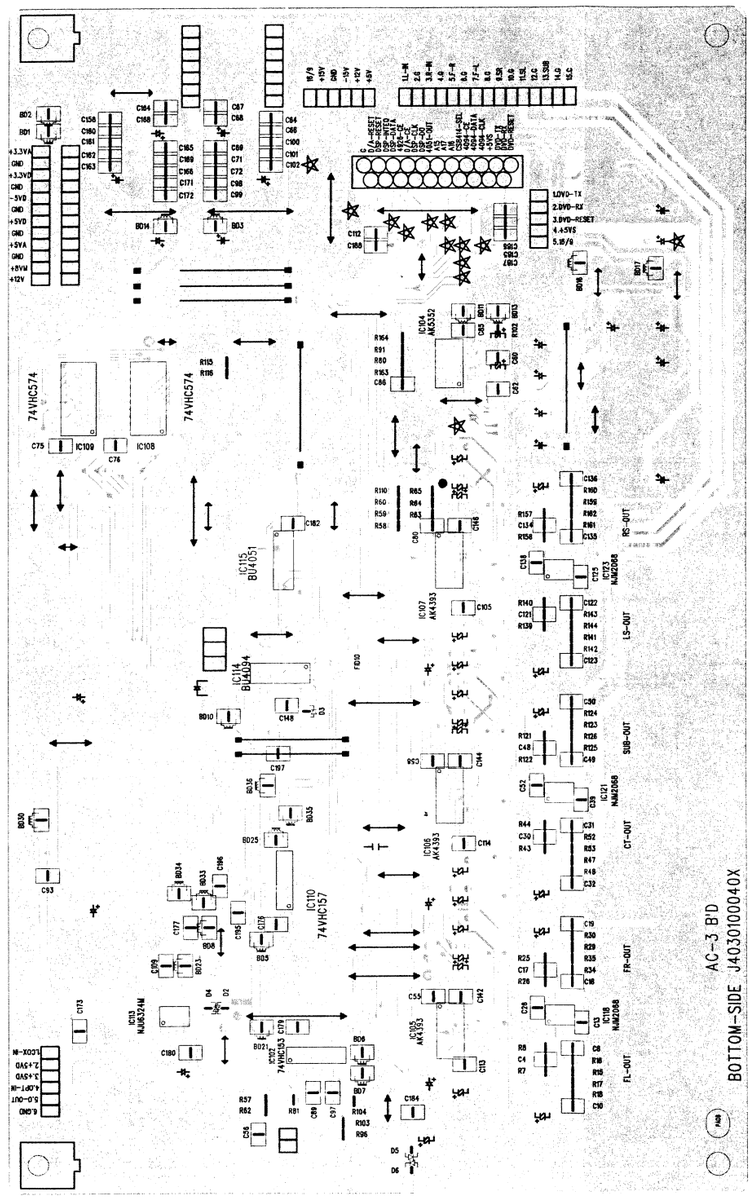


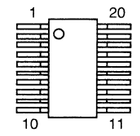
CS8414
AK4393



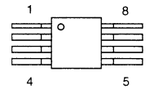
CS4923
CS4926

Solder side
Côté soudure
Lötseite
Lato saldature
Lado del cobre

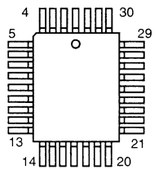




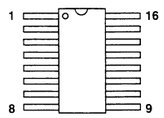
TC74VHC574FW
TC74VHC244FW



NJM2068DD
NJU6324M

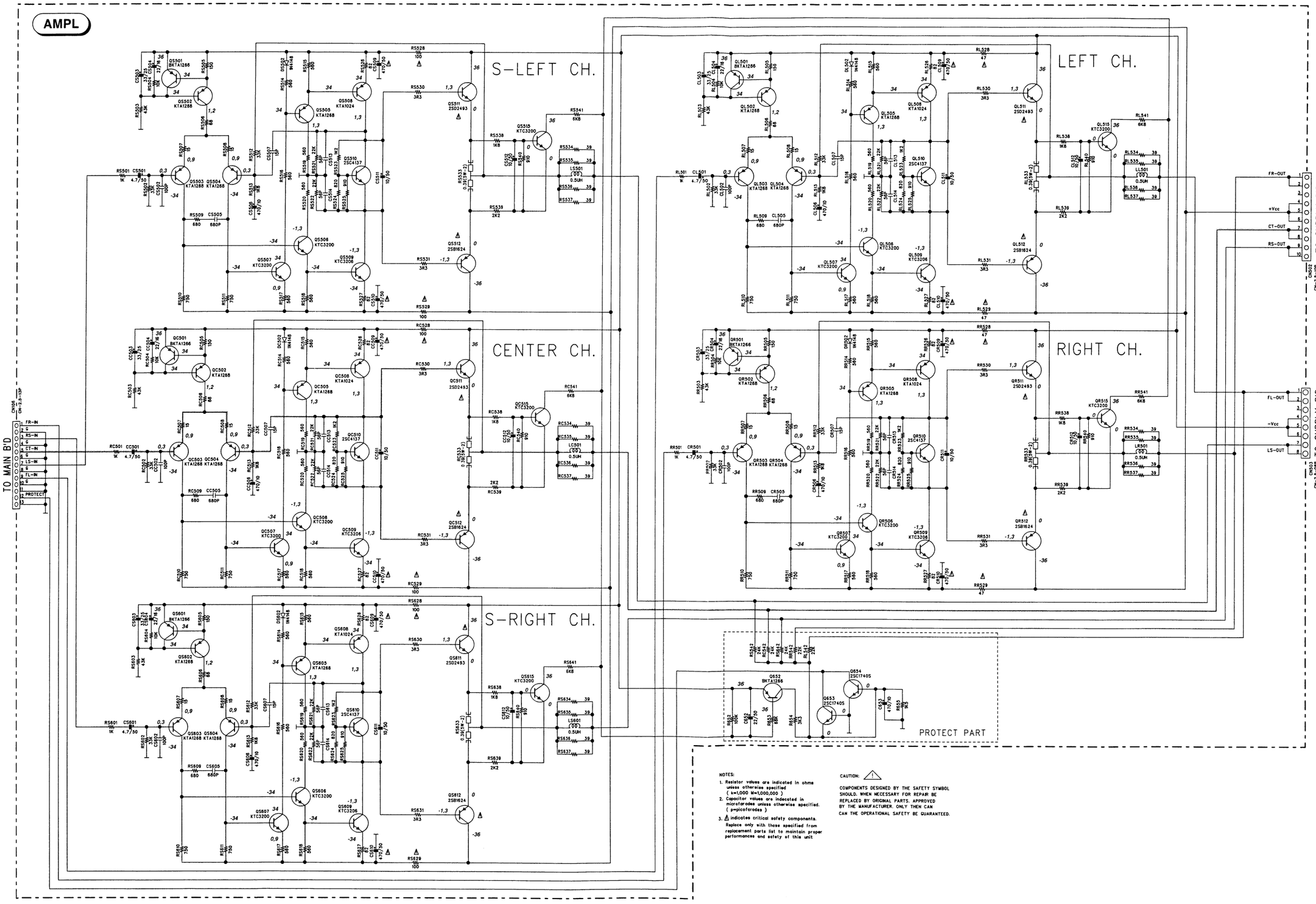


27LV010A
27LV020A

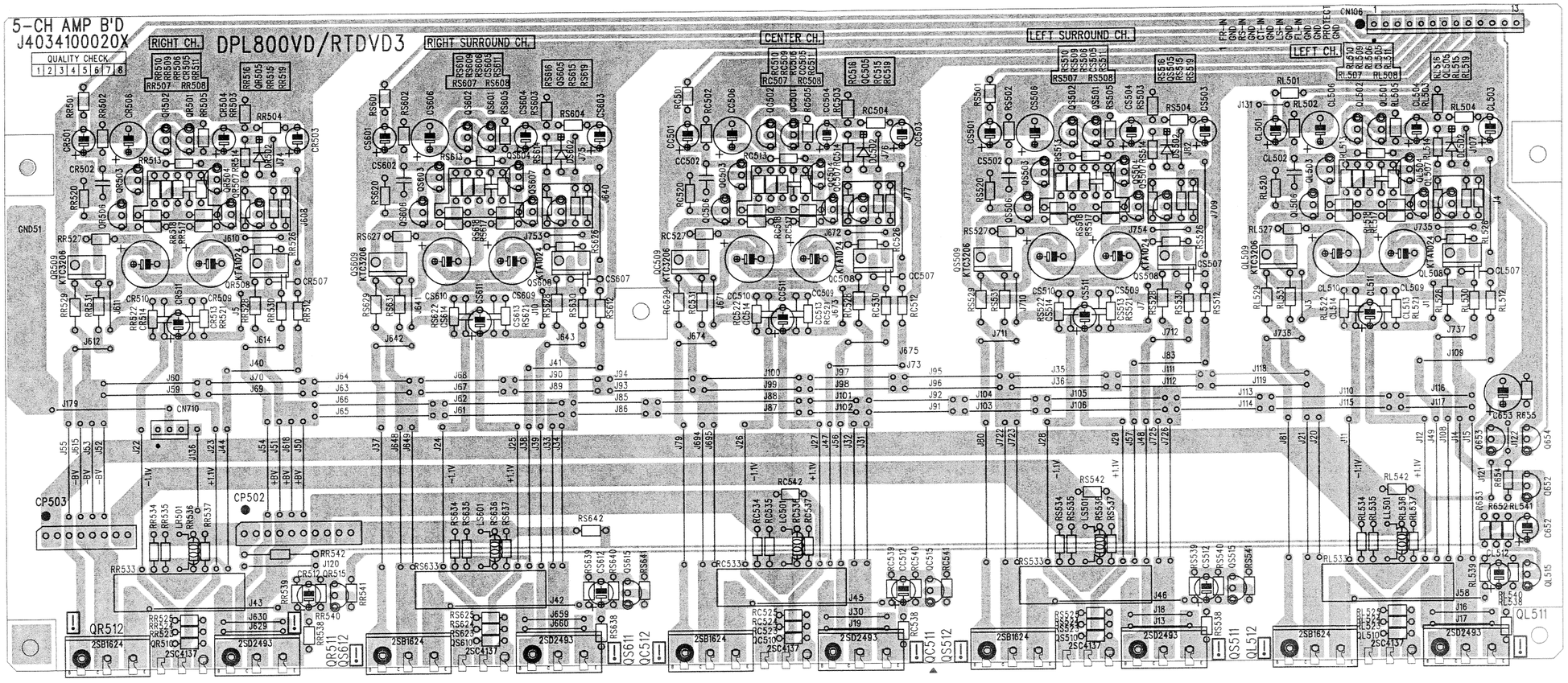


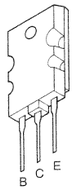
BU4094
BU4051

AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD ENDVERSTÄRKER - SCHEMA DEL AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR

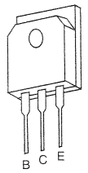

AMPL
S-LEFT CH.
LEFT CH.
CENTER CH.
RIGHT CH.
S-RIGHT CH.
PROTECT PART
TO MAIN B'D
TO SUPPLY B'D
TO SUPPLY B'D
FR-IN
RS-IN
CT-IN
LS-IN
FL-IN
PROTECT
FR-OUT
+Vcc
CT-OUT
RS-OUT
FL-OUT
-Vcc
LS-OUT
NOTES:
1. Resistor values are indicated in ohms unless otherwise specified (k=1,000 M=1,000,000)
2. Capacitor values are indeocated in microfarades unless otherwise specified. (p=picofarades)
3. ⚠ indicates critical safety components. Replace only with those specified from replacement parts list to maintain proper performances and safety of this unit
CAUTION: ⚠
COMPONENTS DESIGNED BY THE SAFETY SYMBOL SHOULD, WHEN NECESSARY FOR REPAIR BE REPLACED BY ORIGINAL PARTS. APPROVED BY THE MANUFACTURER. ONLY THEN CAN CAN THE OPERATIONAL SAFETY BE GUARANTEED.

Amplifier P.C.B.
Platine amplificateur
Ltpl. Endverstärker
Piastra amplificatore
Platina amplificador





2SC4137

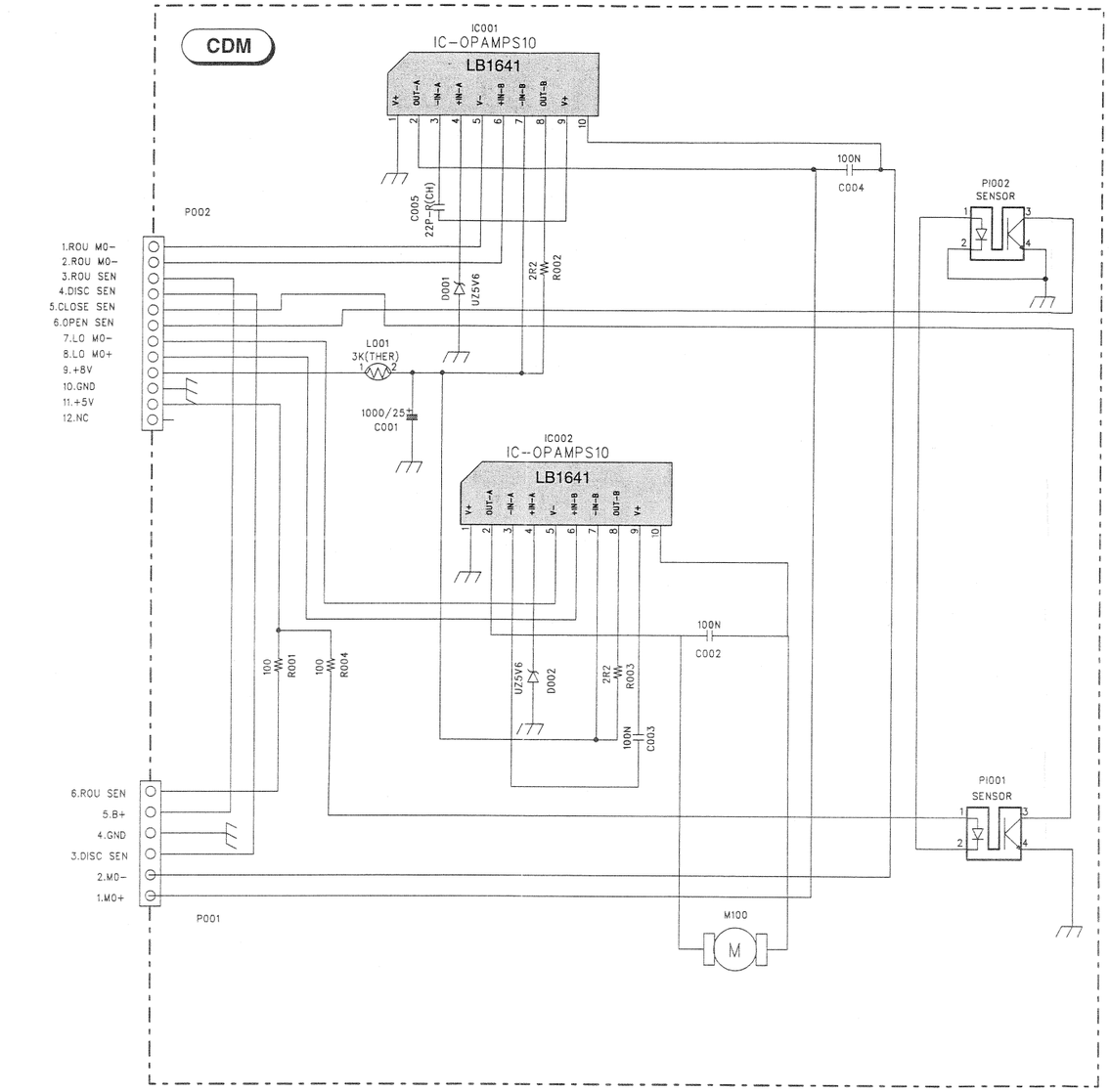


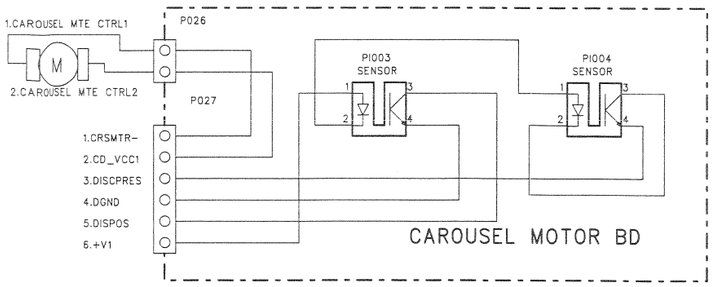
2SD2493
2SB1624

KTA1268
KTA1266
KTC3200

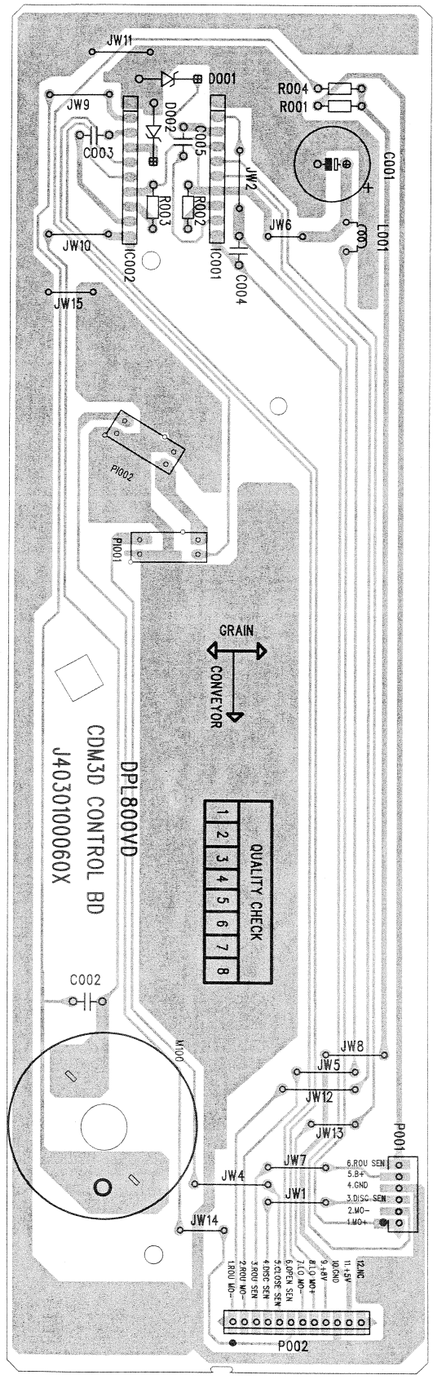
KTC3206
KTA1024
C114YS

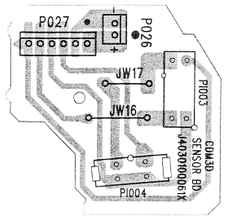
CD MOTOR CONTROL SCHEMATIC DIAGRAM - SCHEMA DE LA PLATINE COMMANDES MOTEURS CD - CD WECHSLER-MOTOR SCHALTBILD - SCHEMA DELLA PIASTRA COMANDI MOTORI CD - ESQUEMA DE LA PLATINA MANDOS MOTORES CD



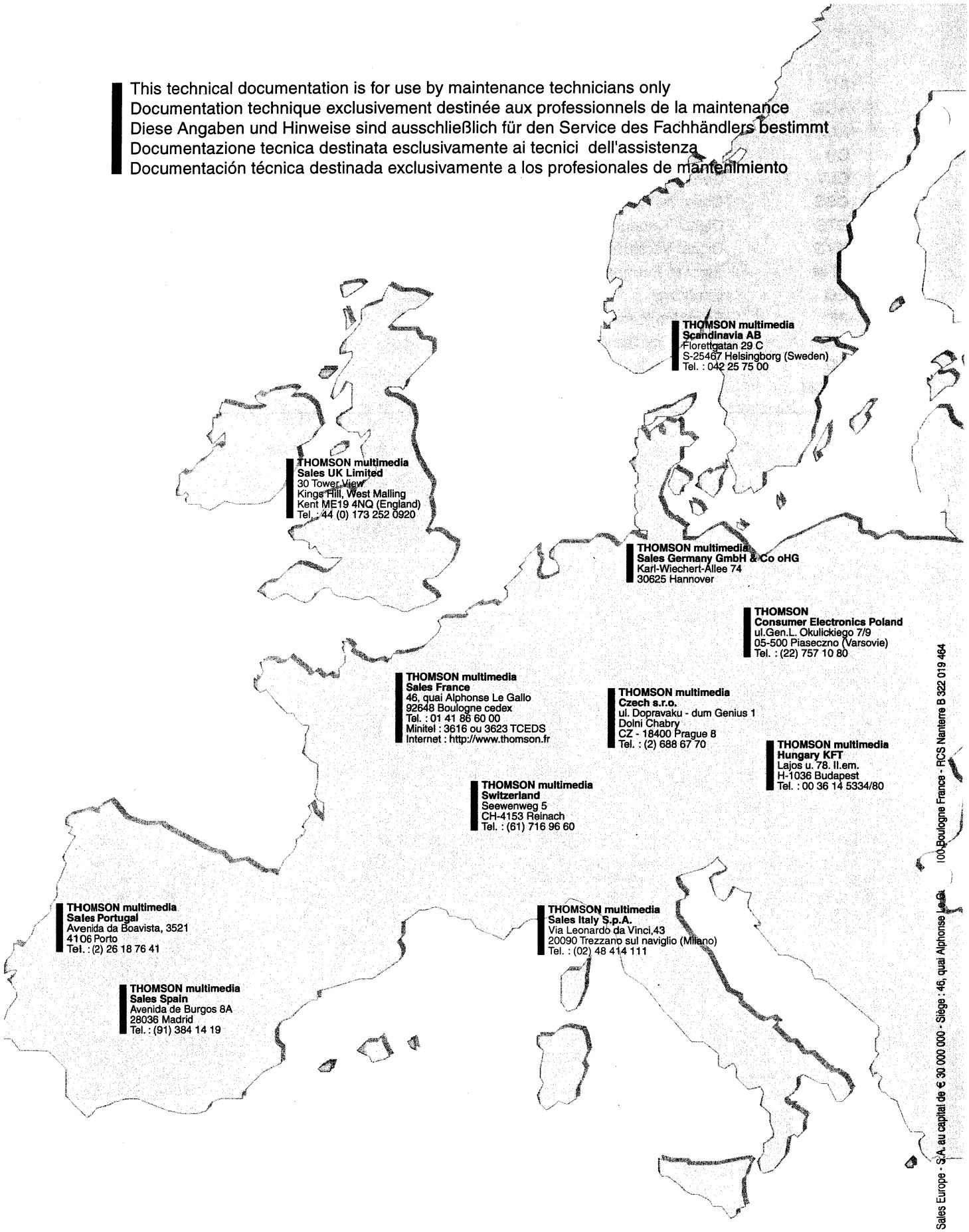


CD motor control P.C.B.
Platine commandes moteur CD
Ltpl. CD Wechsler-motor
Piastra comandi motori CD
Platina de mandos motores CD





This technical documentation is for use by maintenance technicians only
Documentation technique exclusivement destinée aux professionnels de la maintenance
Diese Angaben und Hinweise sind ausschließlich für den Service des Fachhändlers bestimmt
Documentazione tecnica destinata esclusivamente ai tecnici dell'assistenza
Documentación técnica destinada exclusivamente a los profesionales de mantenimiento



THOMSON multimedia
Scandinavia AB
Floretgatan 29 C
S-25467 Helsingborg (Sweden)
Tel. : 042 25 75 00

THOMSON multimedia
Sales UK Limited
30 Tower View
Kings Hill, West Malling
Kent ME19 4NQ (England)
Tel. : 44 (0) 173 252 0920

THOMSON multimedia
Sales Germany GmbH & Co oHG
Karl-Wiechert-Allee 74
30625 Hannover

THOMSON
Consumer Electronics Poland
ul.Gen.L. Okulickiego 7/9
05-500 Piaseczno (Varsovie)
Tel. : (22) 757 10 80

THOMSON multimedia
Sales France
46, quai Alphonse Le Gallo
92648 Boulogne cedex
Tel. : 01 41 86 60 00
Minitel : 3616 ou 3623 TCEDS
Internet : http://www.thomson.fr

THOMSON multimedia
Czech s.r.o.
ul. Dopravaku - dum Genius 1
Dolni Chabry
CZ - 18400 Prague 8
Tel. : (2) 688 67 70

THOMSON multimedia
Hungary KFT
Lajos u. 78. II.em.
H-1036 Budapest
Tel. : 00 36 14 5334/80

THOMSON multimedia
Switzerland
Seewenweg 5
CH-4153 Reinach
Tel. : (61) 716 96 60

THOMSON multimedia
Sales Portugal
Avenida da Boavista, 3521
4106 Porto
Tel. : (2) 26 18 76 41

THOMSON multimedia
Sales Italy S.p.A.
Via Leonardo da Vinci,43
20090 Trezzano sul naviglio (Milano)
Tel. : (02) 48 414 111

THOMSON multimedia
Sales Spain
Avenida de Burgos 8A
28036 Madrid
Tel. : (91) 384 14 19

THOMSON multimedia Sales Europe - S.A. au capital de € 30 000 000 - Siège : 46, quai Alphonse Le Gallo 100 Boulogne France - RCS Nanterre B 322 019 464

The description and characteristics given here are of informative significance only, and non committal. To keep up the high quality of our products, we reserve the right to make any changes or improvement without previous notice. • Les descriptions et caractéristiques figurant sur ce document sont données à titre d'information et non d'engagement. En effet, soucieux de la qualité de nos produits, nous nous réservons le droit d'effectuer, sans préavis, toute modification ou amélioration. • Die Beschreibungen und Daten in dieser Anleitung dienen nur zur Information und sind nicht bindend. Um die Qualität unserer Produkte ständig zu verbessern, behalten wir uns das Recht auf Änderungen vor. • Le descrizioni e le caratteristiche date su questo documento sono fornite a semplice titolo informativo e senza impegno. Ci riserviamo il diritto di eseguire, senza preavviso, qualsiasi modifica o miglioramento. • Las descripciones y características que figuran en este documento se dan a título de información y no de compromiso. En efecto, en bien de la calidad de nuestros productos, nos reservamos el derecho de efectuar, sin previo aviso, cualquier modificación o mejora.

Abbreviations - Abreviations - Abkürzungen - Abbreviazioni - Abreviaciones

AC	Alternative Current
AGC	Automatic Gain Control
ALPC	Automatic Laser Power Control
CD	Compact Disc
CLV	Constant Linear Velocity
CSS	Contents Scramble System
DTS	Digital Theater System
DVD	Digital Versatile Disc
EFM	Eight to Fourteen Modulation
EQ	Equalizer
FE	Focusing Error
FG	Frequency Generator
LD	Laser Diode
LPCM	Linear Pulse Code Modulation
MIRR	Mirror
MPEG	Moving Picture Expert Group
PCB	Printed Circuit Board
PLL	Phase Locked Loop
PWM	Pulse Width Modulation
RF	Radio Frequency
S/N	Signal to Noise
SMPS	Switching Mode Power Supply
TE	Tracking Error
TZC	Track Zero Cross
VBR	Variable Bit Rate